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Ontario, Hydro-Electric Power Commission
(FORTY-FIRST) ANNUAL REPORT

OF

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

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1948 - 1949

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THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

1948

ROBERT H. SAUNDERS, C.B.E., K.C. *Chairman*

HON. GEORGE H. CHALLIES, PHM.B., M.L.A. *1st Vice-Chairman*

W. ROSS STRIKE, K.C. *2nd Vice-Chairman*

R. L. HEARN

*General Manager
and Chief Engineer*

E. B. EASSON
Secretary



HEAD OFFICE
620 UNIVERSITY AVENUE - TORONTO, ONTARIO
CANADA

LETTER OF TRANSMITTAL

TORONTO, ONTARIO, MARCH 31, 1949

THE HONOURABLE RAY LAWSON, O.B.E., LL.D.,

Lieutenant-Governor of Ontario.

MAY IT PLEASE YOUR HONOUR:

It is my privilege to present the Forty-first Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31, 1948. This Report covers all of the Commission's activities and also embodies financial and statistical data of the municipal electrical utilities operating in conjunction with the various systems to supply electric service to the people of the Province. The Commission has endeavoured to arrange and present the financial statements, the statistical data and the general information in such a manner as to give the reader a ready grasp of every important feature of the Commission's operations.

The Report deals with a year of tremendous difficulties but a year of spectacular achievement by the Commission staff under the capable leadership of the general manager and his two assistants. The prosperous state of the Province, its greatly increased industrial activities, the building of new factories and homes, the influx of new citizens, the greatly increased electrical service to rural areas, these all combined to create an unprecedented demand for Hydro service. Such was the planning that given normal precipitation, the tremendously increased demand would have been met by the Commission. This, however, was not to be, particularly in the Southern Ontario system. In this system, some 60 per cent of generation is from plants located on continuous flow rivers, 40 per cent of the Commission's resources are generated in plants owned by the Commission or its suppliers located on rivers with variable flows. Unfortunately, during the summer and fall of the year under review, there was a period of marked and probably unprecedented deficiency in rainfall and consequent river flow in the area of variable flow rivers. This condition caused a reduction during the year in the total energy, generated and purchased of 100,769,220 kilowatt-hours. To meet this very serious reduction, the Commission was forced to arrange restrictions in the use of power and to institute a quota system of power to the municipalities during both the spring and the fall seasons.

During the year, the Commission forged ahead with its program to meet the increased demand and the anticipated future increase. For the first

time since the recent war the Construction division was able to spend the actual budget. That division's activities reached an all time peak in 1948. The construction staff of the Commission and its main contractors had increased to 20,000 compared with 4,353 in 1944. In the same period, the expenditure for construction increased from \$6,500,000 in 1944 to \$90,200,000 in 1948.

During the year the normal operating capacity of the Commission was raised to 1,926,100 horsepower, an increase of 7.4 per cent over 1947 due largely to the bringing into service of (a) the new generating station at Stewartville with a capacity of 60,000 kilowatts (80,000 horsepower), (b) the new generating station at Aguasabon at Terrace Bay with a capacity of 40,000 kilowatts (53,000 horsepower) and (c) the fourth unit at Ear Falls, capacity 5,600 kilowatts (7,500 horsepower). In addition to the aforementioned 1,926,100 horsepower generated, the Commission purchased during the year 954,700 horsepower, making a total available capacity, generated and purchased of 2,880,800 horsepower, an increase of 132,700 horsepower over 1947.

Another field of unprecedented accomplishment was in the extension of rural service. During 1948 there was spent on the rural program \$12,470,715 of which the Province contributes \$6,187,908 as a direct subsidy to the consumer. The Commission followed the principle of making an equitable distribution of available power in connecting during the year over 26,000 new rural consumers and building 3,556 miles of new primary line. On October 31, 1948 the Commission was distributing power in 95 rural operating areas, and in addition was constructing lines in two recently formed areas, not yet operating.

May I direct your attention in another direction? The Commission has now been supplying electrical energy for more than 38 years, the Annual Report contains diagrams depicting its tremendous growth. During this period the costs of electricity to the consumer have been substantially reduced and the finances of the system have been firmly established. On October 31, 1948, the Commission was serving 970 municipalities in the Province, made up of 27 cities, 121 towns and mining townsites, 317 villages and police villages and 505 townships. It is interesting to note that of these municipalities 304 are supplied with power by the Commission under cost contracts and operate their own Hydro utilities either separately or as part of a Public Utilities organization. It is also interesting to note that of the 304 urban Hydro utilities shown in the financial statement for the Southern Ontario and Thunder Bay systems, 257 show increases in average load, 47 show decreases in load.

In order to secure greater efficiency in administration, nine regional offices were established throughout the Province, the specific purposes being— (a) To establish closer relations among the Commission's representatives, the local Hydro commissions and the public. (b) To establish closer relations between regional headquarters and the operating staffs. (c) To obviate regional details being handled at Head Office.

The Regions consist of a Regional Manager, Operations Engineer, Consumer Service Engineer, Accountant, Personnel Officer and staff. The

first several months of operation show that the new system is functioning in a highly desirable manner and is rendering service to the public in a much more intimate fashion than has been possible heretofore.

The Report gives tables showing that to all Hydro consumers, both urban and rural, both domestic and commercial, the trends of increased consumption and decreased average cost of energy continued up to the end of 1948. During the period from 1938 to 1948 the average monthly consumption in kilowatt-hours increased and the average cost per kilowatt-hour decreased as follows:

All urban domestic consumers: Monthly consumption increased from 165 to 252 kilowatt-hours; average cost decreased from 1.28 cents to 1.00 cents per kilowatt-hour.

All urban commercial consumers: Monthly consumption increased from 456 to 673 kilowatt-hours; average cost decreased from 1.62 cents to 1.32 cents per kilowatt-hour.

Farm service, all uses of electricity—light, heat and power: The monthly consumption increased from 141 to 243 kilowatt-hours; average cost decreased from 2.52 cents to 1.63 cents per kilowatt-hour.

Hamlet service, rural domestic: Monthly consumption increased from 80 to 192 kilowatt-hours; average cost decreased from 3.02 cents to 1.77 cents per kilowatt-hour.

As I said before, this is truly a wonderful picture in the face of a dollar that is to-day worth about 60 cents as compared with 1938. Thus these decreases in the average cost of power are much greater than shown by the actual figures.

Against this picture of a progressive reduction in the cost per kilowatt-hour to the consumer over the past ten years we find that there has been a very substantial increase in the costs of labour, material and administrative expense. In consequence, Commission officials are engaged in a detailed study of the future cost of power and the revisions in rates which will be necessary by these divergent trends.

I have received the utmost cooperation from the 1st Vice-Chairman of the Commission, the Hon. George H. Challies and from the 2nd Vice-Chairman, Mr. W. Ross Strike, to whom I express sincere appreciation. We as a Commission are indebted to the members and staffs of the municipal commissions throughout the Province for their generous co-operation which assisted materially in accomplishing the work referred to in the Report.

Respectfully submitted,

ROBERT H. SAUNDERS,
Chairman

LETTER OF SUBMITTAL BY THE GENERAL MANAGER AND CHIEF ENGINEER

TORONTO, ONTARIO, MARCH 30, 1949

ROBERT H. SAUNDERS, ESQ., C.B.E., K.C., *Chairman*

And COMMISSIONERS

SIRS:

The undersigned respectfully submits the Forty-first Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1948.

The Report relates to the Commission's activities on behalf of the co-operative systems, both in the municipal and rural supply fields and to its trusteeship of the Northern Ontario Properties for the Province. There is also presented for the calendar year 1948 financial statements and statistical data of the municipal electric utilities operating in conjunction with the co-operative systems.

Administration

Loads

Demands for power on the Commission's systems continued to rise in 1948, exceeding all previous records. The total peak on the combined systems was 2,069,000 kilowatts, exceeding the corresponding peak of the previous year by 13,000 kilowatts. The total energy output from all generated and purchased sources amounted to 13,554,000,000 kilowatt-hours. This was 100,770,000 kilowatt-hours, or 0.7 per cent less than the output during the previous year.

These comparisons do not fully reflect growth in demand, as no allowance has been made for load reductions due to restrictions, allocation and voluntary conservation. Allowing for these savings it is estimated that the October 1948 potential primary peak demand on all systems would have reached 2,350,000 kilowatts, indicating a growth in primary demand for the year of 8.3 per cent.

Precipitation and Storage

As a result of the dry fall of 1947 the principal storage reservoirs throughout Ontario were well below their usual levels at the start of the 1947-48

winter season. The light snow-cover during the winter and the light precipitation throughout the spring, with consequent smaller run-off led to rapid depletion of stored water and when the usual late summer and fall rains failed to materialize, a severe water shortage developed throughout Ontario. The same condition occurred in Quebec and was the cause of a greatly reduced delivery of power from two of the Commission's Quebec suppliers.

During the year the great increase in the prosperity of the Province resulted in demands for electrical service that at the time of the peaks exceeded the capacity of available resources. In order to avoid excessive power cuts to any one class of consumer, an appeal was made to all consumers for the conservation of power. This was followed by regulations restricting the use of electricity, and later a modified form of rationing was adopted which remained in effect until water conditions improved.

Financial Operating Results

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

The full use of all available equipment throughout most of the year produced exceptionally high revenues in relation to plant investment. This condition was offset to some extent by the shortage of water in certain areas which limited the expansion of revenue as compared with 1947. Net operating revenues for the year totalled \$56.0 million, an increase of \$2.0 million, or 3.7 per cent over 1947. Operating expenses totalled \$39.9 million, an increase of \$2.8 million or 7.5 per cent over 1947, while provision for reserves amounted to \$16.1 million or 4.5 per cent less than in 1947. It will be noted that proportionately there was a greater increase in expense than in revenue. Some of the factors contributing to the increased expense were the rising cost of labour, materials and equipment, and the coming into operation of new plant facilities with the consequent increased cost for interest and certain reserve provisions.

NORTHERN ONTARIO PROPERTIES

There was a sharp reduction in revenues from the sale of secondary power due to water shortages during the first half of 1948. Later in the year this was offset by an increase in revenue from mining uses and the pulp and paper industry. Operating revenues for the year totalled \$7.1 million, an increase of \$0.3 million or 4 per cent over 1947. Operating expenses amounted to \$5.4 million, an increase of \$0.6 million, or 12 per cent over 1947. As in the case of the co-operative systems the proportionate increase in expenses was greater than in revenue. Provisions for reserves were much the same as in 1947 and totalled \$2.2 million.

Progress of Reorganization

The expansion program of the Commission has made necessary a very large increase in staff, which has posed problems of great magnitude for

management. Many of the recommendations of the consultants made in 1947 were implemented during 1948. Thus the Province has been divided into nine regions, each staffed with representatives of the main branches of the Head Office organization and headed by a regional manager, who is responsible for administering the day-to-day activities of the Commission within his region, excluding engineering and construction projects. This new type of decentralized administration has already proved successful, and beneficial both to the Commission and the municipalities.

Staff

The Commission's staff increased by 5,007 during the year 1948 to a total of 18,097, made up of 6,479 regular and 11,618 temporary employees, the latter group being mainly employed on the large hydraulic projects and their associated works. Approximately one-half of the year's increase and one-half of the total staff are with the Construction division. Monthly payroll earnings during the same period rose by \$1,121,000 reaching \$3,460,000 per month at the end of the fiscal year. The increases in staff and earnings reflect the overall magnitude of the Commission's expansion program.

Rural Service

The record of progress in extending rural service during 1948 is an inspiring one. Service was provided to 26,000 new consumers, the largest number ever connected in any one year since the commencement of operations. Similarly the 3,556 miles of primary line constructed was substantially in excess of any previous year, bringing the total construction at the end of October 1948 to 27,321 miles. The total number of rural consumers of all classes supplied at the end of October 1948 was 220,089.

The growth in power requirements of the rural operating areas was consistent with the large increase in consumers. There were, however, two periods in which it was necessary to restrict the use of power. Notwithstanding these curtailments the aggregate peak load in 1948 reached a maximum of 227,130 horsepower, an increase of nearly 20 per cent over 1947. There has been a threefold increase in the power supplied to rural operating areas since the year 1939. The increase in expenses, however, was in greater proportion than the increase in revenue with a net deficit on rural operation for all systems. The principal factors contributing to this condition were the rapid rate of expansion, the extensive program of necessary improvements in existing facilities, deferred maintenance, and the decrease in consumer density on rural lines.

Frequency Conversion

The decision to standardize the frequency at 60 cycles in the Southern Ontario system is being implemented and the change to be made in the Niagara division has passed the planning stage. A start on the actual work is envisaged for 1949.

Engineering

The Construction Program

Since 1945 the Commission has been engaged in implementing the power development program for which plans were started before the termination of the war. In general, notwithstanding shortages in the supply of construction materials—an inevitable post-war difficulty—excellent progress was made. Two major developments were completed; at Stewartville on the Madawaska river in eastern Ontario and at Aguasabon in the Thunder Bay area, and one extension was made to Ear Falls development in the Patricia district of northwestern Ontario.

Stewartville supplies power to serve the growing demands in the Southern Ontario system. Aguasabon further augments the supply of power to the Thunder Bay system, providing additional power for the growing municipal loads as well as for the expanding pulp and paper industry. The extension at Ear Falls will supply additional power to the mining industries in the rapidly expanding northland.

The maximum normal plant capacity at October 31, 1948 was 1,437,000 kw, an increase of 99,000 kw during the year.

Actual construction proceeded on five major developments, three on the Ottawa river at Des Joachims, Chenaux and La Cave, one at Pine Portage on the Nipigon river and one at the Tunnel site on the Mississagi river.

The increased generating facilities recently made available, or now under construction, brought about corresponding development of transformer stations and transmission lines. During the year transformer station capacity was increased by 100,000 kva of new installations while 67,500 kva were added to existing facilities. In the same period, 730 miles of main transmission lines were constructed which included 135 miles of 230,000-volt line, 355 miles of 115,000-volt line and 240 miles of 44,000 and lower voltage lines.

Capital Expenditures for Construction

The capital construction program for the 1948 fiscal year called for an expenditure of \$83.2 million; the actual expenditures were \$90.2 million, or 108 per cent of the objective. This was the first time in the present construction program that budget figures were exceeded, although some of this increased expenditure can be accounted for by the general increase in prices and wage rates it also reflects the improved position in respect to manpower and materials which handicapped the Commission's construction program in previous years.

The actual expenditure for the 1947 fiscal year was \$46.1 million, so it will be seen that capital expenditures in 1948 were nearly doubled. This record expenditure was made to provide new plants, transformation facilities and transmission lines and other equipment needed; not only to meet the great demand for service, but to improve it. The Commission's construction program was financed from bond issues and the partial investment of reserves.

Improvement of Supply Conditions

The Commission has been striving by all possible means to give priority to features of its post-war plans that offer the maximum progressive alleviation of the Province's power difficulties. The construction program in 1948 has already given some relief and it is hoped that by 1951 power supplies in Ontario will have overtaken demands. By 1950, however, there will be a substantial increase in resources, which should overcome the type of shortage experienced during the winter of 1948.

Cost of Power

The limitations on the maintenance and rehabilitation of existing plants, and the fact that the power systems were operated without reserve capacity, permitted the general level of rates for power that prevailed throughout the war period and up to 1947 to be maintained in 1948. As new plants, however, are brought into service and desirable operating reserves of power become established, the fixed charges on capital assets will increase and it will be necessary to carry these power reserves without a corresponding growth in revenue-producing load. These circumstances, together with the sharp rise in labour and material costs for operation, maintenance and new construction, give ample indication of an increase in the cost of power. This trend, which is keenly appreciated by management, is receiving continual study.

A review of the activities of The Hydro-Electric Power Commission of Ontario for 1948 would be incomplete without an acknowledgment to those who made the year's work so successful. I wish, therefore, to record that the expansion in the Commission's activities, involving the largest capital budget in its history, was achieved only through the efficient, loyal and untiring efforts of the entire staff. During the past year the power development program progressed on schedule, although at the same time the Commission was confronted with very difficult operating conditions, and great credit is therefore due to all branches of the organization in carrying out their duties so efficiently and effectively.

Respectfully submitted,

R. L. HEARN,

*General Manager
and Chief Engineer*

SUMMARY TABULATIONS AND STATEMENTS

Total Power Generated and Purchased — All Systems

For Fiscal Years ended October 31, 1947 and 1948

	1947 Horsepower	1948 Horsepower	Increase or Decrease Horsepower
Maximum normal plant capacity.....	1,793,400	1,926,100	+132,700
Power purchased—contract amount.....	954,700	954,700	Nil
Total available capacity—generated and purchased.....	2,748,100	2,880,800	+132,700
Total energy generated.....	Kilowatt-hours 8,871,333,291	Kilowatt-hours 8,879,893,929	Kilowatt-hours +8,560,638
Total energy purchased.....	4,783,524,459	4,674,194,601	*—109,329,858
Total energy—generated and purchased.....	13,654,857,750	13,554,088,530	—100,769,220

*Reduction in 1948 due to water shortage.

Supply and Demand of Power by Systems

TOTAL POWER ACTUALLY SUPPLIED—(Primary and Secondary)

20-MINUTE PEAK HORSEPOWER—SYSTEM COINCIDENT PEAKS

System	1947	1948
	October	
Southern Ontario System.....	2,257,733	2,068,331
Thunder Bay System.....	150,918	177,225
Northern Ontario Properties.....	276,521	284,359
Total.....	2,685,172	2,529,915
	December	
	1947	1948
Southern Ontario System.....	2,312,638	2,262,724
Thunder Bay System.....	154,055	207,165
Northern Ontario Properties.....	260,224	297,887
Total.....	2,726,917	2,767,776

TOTAL POWER DEMAND

ACTUAL PRIMARY LOAD PLUS ESTIMATED INDUSTRIAL LOAD CUTS—HORSEPOWER

System	1947	1948
	October	
Southern Ontario System.....	2,505,100	2,279,678
Thunder Bay System.....	150,900	169,048
Northern Ontario Properties.....	252,500	280,097
Total.....	2,908,500	2,728,823
	December	
	1947	1948
Southern Ontario System.....	2,581,900	2,449,922
Thunder Bay System.....	153,700	178,210
Northern Ontario Properties.....	259,300	282,733
Total.....	2,994,900	2,910,865

Note: These comparisons do not fully reflect growth in demand as no allowance has been included for load reduction due to restrictions and voluntary conservation in 1947 and 1948.

Summary of Hydro's Post-War Development Program — 1945 to 1952

CONSTRUCTION OF GENERATING PLANTS

<i>System and development</i>	<i>Kilowatts</i>	<i>Horsepower</i>
<i>In Operation</i>		
SOUTHERN ONTARIO SYSTEM		
DeCew Falls (Extension)—Niagara district—In service September 1947.....	57,000	77,000
Stewartville—Madawaska river—In service September 1948....	60,000	81,000
Additional power purchase contract—Polymer Corporation November 1948.....	22,500	30,200
THUNDER BAY SYSTEM		
Aguasabon—Aguasabon river—In service October 1948.....	40,000	53,000
NORTHERN ONTARIO PROPERTIES		
Ear Falls (Extension)—English river—In service June 1948....	5,600	7,500
Total in service.....	185,100	248,700
<i>Authorized and Under Construction</i>		
SOUTHERN ONTARIO SYSTEM		
Des Joachims—Ottawa river.....	358,000	480,000
Chenau—Ottawa river.....	120,000	160,000
La Cave—Ottawa river.....	135,000	*180,000
Windsor Steam Plant.....	120,000	160,000
THUNDER BAY SYSTEM		
Pine Portage—Nipigon river.....	60,000	†80,000
NORTHERN ONTARIO PROPERTIES		
Tunnel—Mississagi river.....	42,000	56,500
Total under construction.....	835,000	1,116,500
Total completed and under construction.....	1,020,100	1,365,200
*Ultimate capacity planned.....	240,000 horsepower	
†Ultimate capacity planned.....	160,000 horsepower	

FINANCIAL SUMMARY—AS AT DECEMBER, 1948

For power generation:		
In service.....	\$ 34,079,700	
Under construction.....	192,625,200	
		\$ 226,704,900
For high-voltage transmission lines:		
In service.....	\$ 18,230,650	
Under construction.....	49,115,579	
		67,346,229
For high-voltage transformers, switching and frequency-changer station facilities and service buildings:		
In service.....	\$ 15,227,000	
Under construction.....	50,562,141	
		65,789,141
For rural construction:		
Expended to October 31, 1948.....	\$ 12,348,274	
Under construction.....	43,726,959	
		56,075,233
		\$ 415,915,503
Frequency conversion program for two years.....		17,500,000
Other approved projects relating to certain rehabilitation of plants, modernization of equipment, improvements to transmission and distribution equipment and further new installations.....		49,090,085
		\$ 482,505,588

Capital Investment and Reserves

Capital Investment

The total capital investment of The Hydro-Electric Power Commission of Ontario in power undertakings, exclusive of government grants in respect of construction of rural power districts' lines (\$33,380,778.24) is \$546,352,576.31, and the investment of the municipalities in distributing systems and other assets is \$166,407,669.12, making in power undertakings a total investment of \$712,760,245.43.

The following statement shows the capital invested in the respective systems, properties and municipal undertakings etc:

Southern Ontario system.....	\$ 395,080,500.40
Thunder Bay system.....	41,532,979.46
Office and service buildings.....	6,755,055.59
Construction plant and inventories.....	32,827,231.77
Total capital investments in co-operative systems.....	\$ 476,195,767.22
Northern Ontario Properties—Operated by H-E.P.C. on behalf of the Province of Ontario.....	69,204,691.53
Northern Ontario Properties—Construction plant and inventories.....	952,117.56
Total Commission capital investments.....	\$ 546,352,576.31
Municipalities' distribution systems.....	126,096,691.57
Other assets of municipal Hydro utilities.....	40,310,977.55
Total.....	<u>\$ 712,760,245.43</u>

Reserves of Commission and Municipal Electrical Utilities

The total reserves of the Commission and the municipal electrical utilities for depreciation, contingencies, stabilization of rates, sinking fund and insurance purposes, amount to \$495,896,508.48, made up as follows:

Southern Ontario system.....	\$ 274,167,072.94
Thunder Bay system.....	18,482,797.15
Office and service buildings and equipment.....	2,055,816.06
Total reserves in respect of co-operative systems' properties.....	\$ 294,705,686.15
Northern Ontario Properties.....	29,540,734.73
Fire insurance reserve.....	269,800.48
Miscellaneous reserves.....	645,491.08
Employers' liability insurance, and staff pension reserves.....	17,119,399.52
Total reserves of the Commission.....	\$ 342,281,111.96
Total reserves and surplus of municipal electric utilities.....	153,615,396.52
Total Commission and municipal reserves.....	<u>\$ 495,896,508.48</u>

Revenue of Commission

The revenue of the Commission at interim rates from the municipal utilities operating under cost contracts, from customers in rural power districts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Southern Ontario and Thunder Bay systems, aggregated \$58,712,365.04. The revenue of the Commission from customers served by the Northern Ontario Properties, which are held and operated in trust for the Province, was \$7,059,878.52, making a total (excluding \$221,308.89 of Northern Ontario Properties revenue transferred to Thunder Bay system in respect of power supplied) of \$65,550,934.67.

Summarized operating results of these co-operative systems and rural power districts and of the Northern Ontario Properties, as of October 31, 1948, follow:

Summarized Operating Results

SOUTHERN ONTARIO SYSTEM—THUNDER BAY SYSTEM INCLUDING RURAL POWER DISTRICTS

Revenue: amount received from or billed against municipalities and other customers.....	\$ 49,229,002.67	
Revenue from customers in rural power districts (retail).....	9,483,362.37	
Total revenue, systems and rural.....		\$58,712,365.04
Operation, maintenance, administration, interest and other current expenses.....	\$39,873,131.25	
Provision for reserves—		
Renewals.....	\$3,289,548.43	
Contingencies and obsolescence.....	1,618,888.85	
Frequency standardization.....	7,447,030.47	
Stabilization of rates.....	110,480.23	
Sinking fund.....	3,632,907.17	
	16,098,855.15	
		\$55,971,986.40
Balance.....		<u>\$2,740,378.64</u>

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
In trust for the Province of Ontario

Revenue: amount received from or billed against municipalities and other customers.....		\$7,059,878.52
Operation, maintenance, administration, interest and other current expenses.....	\$5,352,959.54	
Provision for reserves—		
Renewals.....	\$525,662.57	
Sinking fund.....	1,679,544.08	
	2,205,206.65	
		7,558,166.19
Loss.....		<u>\$498,287.67</u>

Comparative Financial Statements 1947-1948

Co-operative Systems of the Commission

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario divisions

	1947	1948
	\$ c	\$ c.
OPERATING EXPENSES AND FIXED CHARGES		
Power purchased.....	12,842,841.99	12,561,818.99
Operation, maintenance and administration.....	10,378,090.90	12,189,743.27
Interest.....	12,376,441.09	13,479,519.81
Provision for renewals.....	2,810,247.09	3,104,610.66
Provision for contingencies and obsolescence.....	9,697,982.20	1,002,502.11
Provision for Frequency standardization.....		7,447,030.47
Sinking fund.....	3,127,754.11	3,412,778.71
TOTAL COST OF POWER.....	51,233,357.38	53,198,004.02
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	54,486,567.16	55,874,052.59
Net balance credited to municipalities under cost contracts....	3,253,209.78	2,676,048.57

THUNDER BAY SYSTEM

	1947	1948
	\$ c.	\$ c.
OPERATING EXPENSES AND FIXED CHARGES		
Power purchased.....	18,895.90	76,521.87
Operation, maintenance and administration.....	600,855.16	693,232.66
Interest.....	876,285.45	872,246.43
Provision for renewals.....	177,691.41	184,919.33
Provision for contingencies and obsolescence.....	656,070.23	616,377.52
Provision for stabilization of rates.....	54,233.97	110,480.23
Sinking fund.....	212,649.99	220,111.86
TOTAL COST OF POWER.....	2,596,682.11	2,773,889.90
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates	2,667,505.04	2,838,219.97
Net balance credited to municipalities under cost contracts..	70,822.93	64,330.07

Municipal Electric Utilities

The following summarizes the year's operation of the local electric utilities conducted by municipalities owning their own distribution systems and operating with energy supplied by or through The Hydro-Electric Power Commission. These include not only electric utilities of the cost contract municipalities of the Southern Ontario and Thunder Bay systems, but also those of certain municipalities served through the Northern Ontario Properties.

The total revenue collected by the municipal electric utilities in 1948 was \$53,494,708.19, as compared with \$51,379,774.76 for 1947, an increase of \$2,114,933.43 or 4.1 per cent.

The items of expenditure of the municipal electric utilities included \$32,432,823.73 for power supplied by the Commission, \$11,215,570.31 for operation, maintenance and administration and \$339,213.78 for interest, \$903,443.37 for sinking fund and principal payments on debentures, and \$4,329,784.87 for depreciation and other reserves. Total expenses and reserve appropriations were \$49,220,836.06, an increase of \$1,965,934.15, or 4.2 per cent over 1947. The total net surplus for the year's operations was \$4,273,872.13.

Co-operative Systems

With regard to the local Hydro utilities operating under cost contracts, the following statements summarize for each of the co-operative systems administered by the Commission, the financial status and the year's operations as detailed in Section X of the Report.

It is interesting to note that the average cost per horsepower to the municipalities of the Southern Ontario and Thunder Bay systems during 1948 was \$21.33, as compared with \$20.82 for the previous year, an increase of 51 cents per horsepower. Notwithstanding this increase in cost per horsepower there was no change of importance in the rates to consumers in the municipalities of either system.

SOUTHERN ONTARIO SYSTEM

The total plant assets of the Southern Ontario system utilities amount to \$120,379,098.17. The total assets aggregate \$246,812,584.72. The reserves and surplus accumulated in connection with the local utilities amount to \$147,099,921.75, an increase of \$7,249,847.78 during the year 1948. The percentage of net debt to total assets is 5.6, an increase of 0.3 per cent, which has been chiefly due to the post-war rehabilitation program.

The total revenue of the municipal electric utilities served by this system was \$51,161,467.46, an increase of \$1,958,479.76 or 4 per cent, as compared with the previous year.

After meeting all expenses in respect of operation, including interest, depreciation and other reserves and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Southern Ontario system amounted to \$4,116,424.15 as compared with a net surplus of \$3,979,539.92 for the previous year

THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay system utilities amount to \$3,605,603.70. The total assets aggregate \$10,081,699.92. The reserves and surplus accumulated in connection with the local utilities amount to \$4,393,468.75, an increase of \$181,694.41 during the year 1948. The percentage of net debt to total assets is 8.7, an increase of 3.3 per cent, which has been chiefly due to the post-war rehabilitation program.

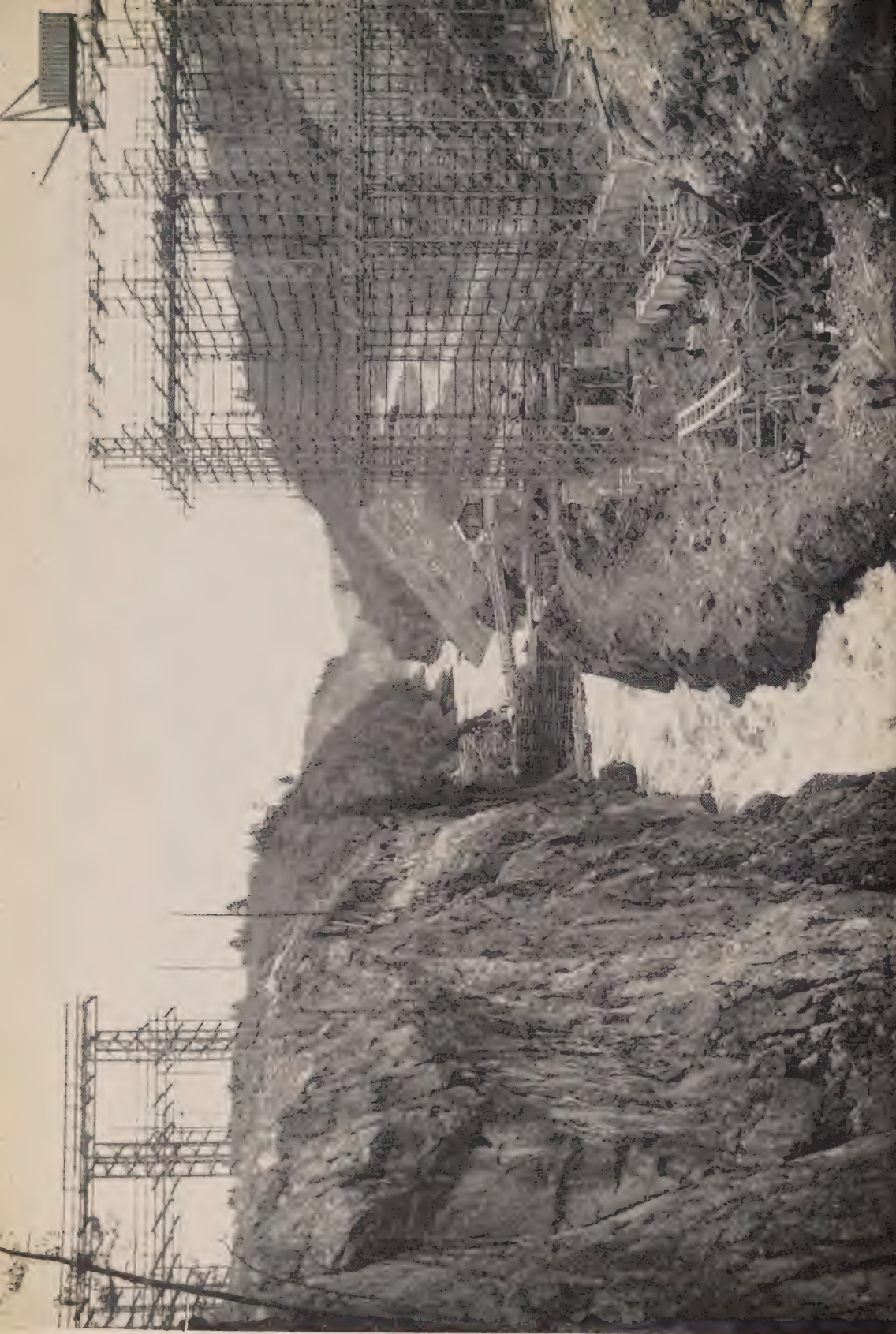
The total revenue of the municipal electric utilities served by this system was \$1,366,261.01, an increase of \$107,019.04, or 8.5 per cent, as compared with the previous year. After meeting all expenses in respect of operation, including interest, depreciation and other reserves and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Thunder Bay system amounted to \$111,305.17 as compared with a net surplus of \$127,755.28 for the previous year.



DES JOACHIMS — Trestle of Bailey bridge material for conveying concrete



Preliminary cofferdam work at power site — CHENAUX



TUNNEL — Bailey bridging used as form cage for main dam in canyon



Main dam completed — AGUASABON



PINE PORTAGE — Excavation for main dam nearly complete, November, 1948

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FORTY-FIRST ANNUAL REPORT OF The Hydro-Electric Power Commission of Ontario

FOREWORD

and

Guide to the Report

THE Hydro-Electric Power Commission of Ontario administers a co-operative municipal-ownership enterprise, supplying power throughout the Province of Ontario. The Commission was created in 1906 by special act of the Legislature and followed investigations by advisory commissions appointed as a result of public agitation to conserve the water powers of Ontario as a valuable asset of the people and to provide a more satisfactory supply of low-cost power in southern Ontario. In 1907 the Power Commission Act (7-Edward VII Ch. 19) was passed amplifying and extending the Act of 1906, and this Act—modified by numerous amending acts which now form part of the Revised Statutes of Ontario, 1937, Chap. 62, and subsequent amending Acts—constitutes the authority under which the Commission operates.

The Hydro-Electric Power Commission of Ontario consists of a Chairman and two Commissioners, all of whom are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One of the Commissioners must be a member of the Executive Council and two may be members.

In 1909, work was commenced on a comprehensive transmission system and by the end of 1910 power was being supplied to several municipalities.

The Commission has now been supplying electrical energy for more than thirty-eight years and the Report contains diagrams depicting the growth of the enterprise. During this period the costs of electricity to the consumer have been substantially reduced and the finances of the enterprise have been firmly established.

At the end of 1948 the Commission was serving 970 municipalities in Ontario. This number included 27 cities, 121 towns and mining townsites, 317 villages and police villages and 505 townships and improvement districts. With the exception of 13 suburban sections of townships known as "voted areas," the townships and 135 of the smaller villages are now served as an amalgamated rural division of Hydro service with a uniform rate structure. Thus, no matter where rural service is given in Ontario by the Hydro, the rural consumer for the same class of service with the same consumption of electricity pays the same amount on his quarterly bill.

Financial Features of Co-operative Systems

The basic principle governing the financial operations of the undertaking is that electrical service be given by the Commission to the municipalities

and by the municipalities to the ultimate consumers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment and reserves for renewals or depreciation, for obsolescence and contingencies, and for stabilization of rates, but also a reserve for sinking fund or capital payments on debentures.

The undertaking from its inception has been entirely self-supporting and no contributions have been made from general taxes except for service in rural power districts. In this case the Province, in pursuance of its long established policy of assisting agriculture and with the approval of the urban citizens, assists extension of rural electrical service by a grant-in-aid of the capital cost and in other ways as detailed in the Report.

As the principle of "service at cost" is radically different from that obtaining in private organizations, where profit is the governing feature, it naturally results in different and in some ways unique administrative features.

The undertaking as a whole involves two distinct phases of operations as follows:

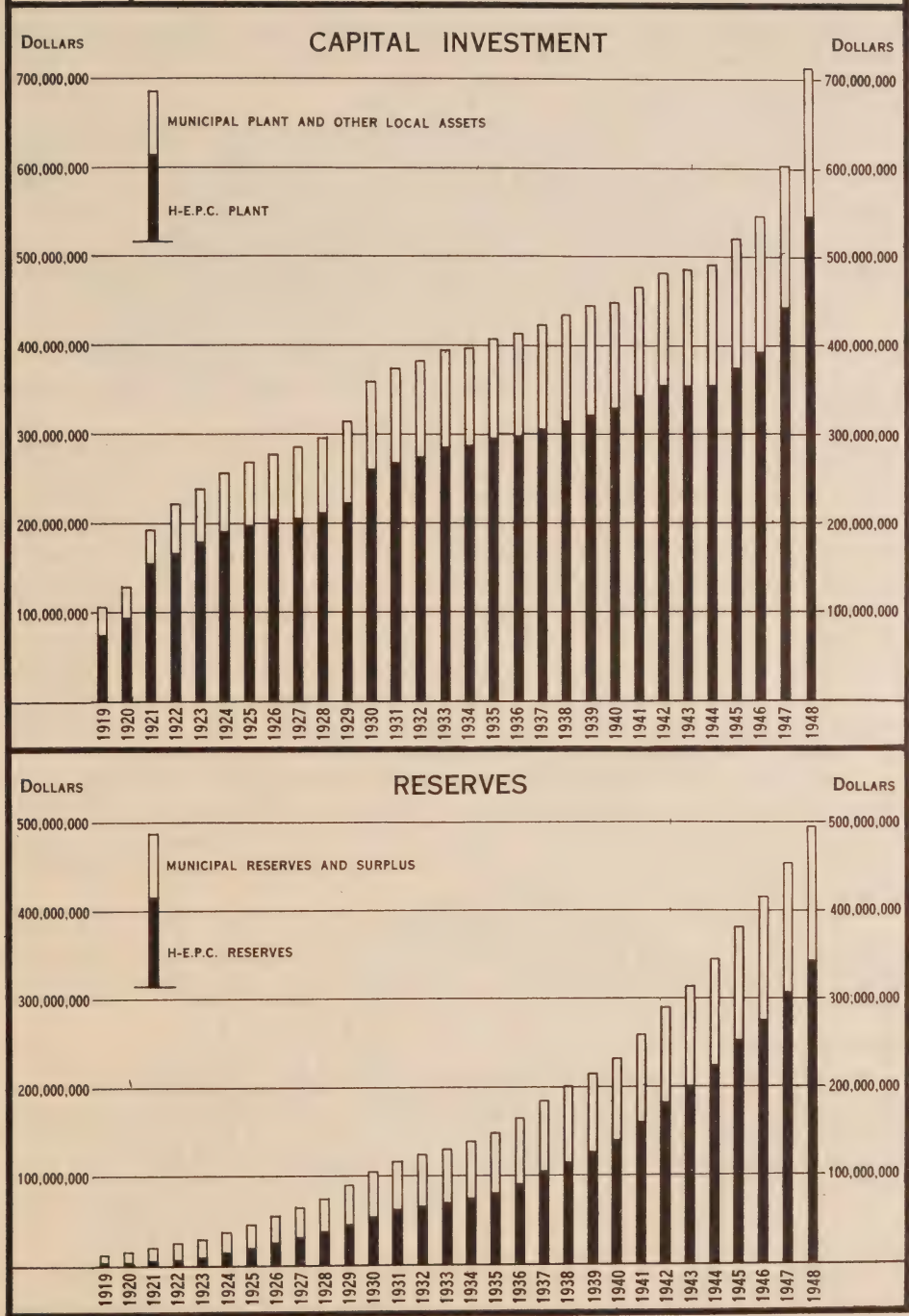
The *First* phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements of these collective activities of the municipalities are presented in Section IX of the Report. Each system of municipalities, as provided in *The Power Commission Act*, forms an independent financial unit and the accounts are therefore segregated and separately presented for each. In order, however, that there may be a comprehensive presentation of the co-operative activities of the undertaking as a whole, there are presented, in addition, for the two main systems and miscellaneous co-operative activities a balance sheet of assets and liabilities, a statement of operations, a tabulation of fixed assets, and summarized combined statements of various reserves.

The *Second* phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and throughout the rural areas of the Province. For the consolidated rural power districts The Hydro-Electric Power Commission not only provides the power wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the retail distribution of energy to the consumers within the rural operating areas. Summarized financial statements relating to rural electrical service are presented in Section IX of the Report, and a general report on this service is given in Section IV.

In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of The Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data of the individual urban electrical utilities are presented in Section X of the Report.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THIRTY YEARS RECORD—ALL SYSTEMS



For the Northern Ontario Properties held and operated by the Commission in trust for the Province there are also presented in Section IX financial statements including a balance sheet, an operating account, and statements of reserves and capital expenditures.

Further details respecting administration and explanations of the financial tables presented in the Report are given in the introductions to sections IX and X on pages 141 and 219.

Co-operative Systems Operating

From time to time in accordance with provisions of *The Power Commission Act* various groups of municipalities have been co-ordinated to form systems for the purpose of obtaining power supplies from convenient sources. In time these small systems grew until their transmission lines interlocked with those of adjacent systems and it proved beneficial to consolidate the transmission networks and the financial and administrative features. Early in 1944 the three systems serving southern Ontario, the Niagara, Georgian Bay and Eastern Ontario systems, were amalgamated to form the *Southern Ontario System* and financially the amalgamation was made retroactive to apply to the fiscal year 1942-43. The three former systems became *divisions* of the Southern Ontario system.

The Niagara division embraces municipalities in all the territory between Niagara Falls, Hamilton and Toronto on the east and Windsor, Sarnia and Goderich on the west. It is served with 25-cycle power supplied from plants on the Niagara river, supplemented with power transmitted from generating plants on the Ottawa river and with power purchased from Quebec companies.

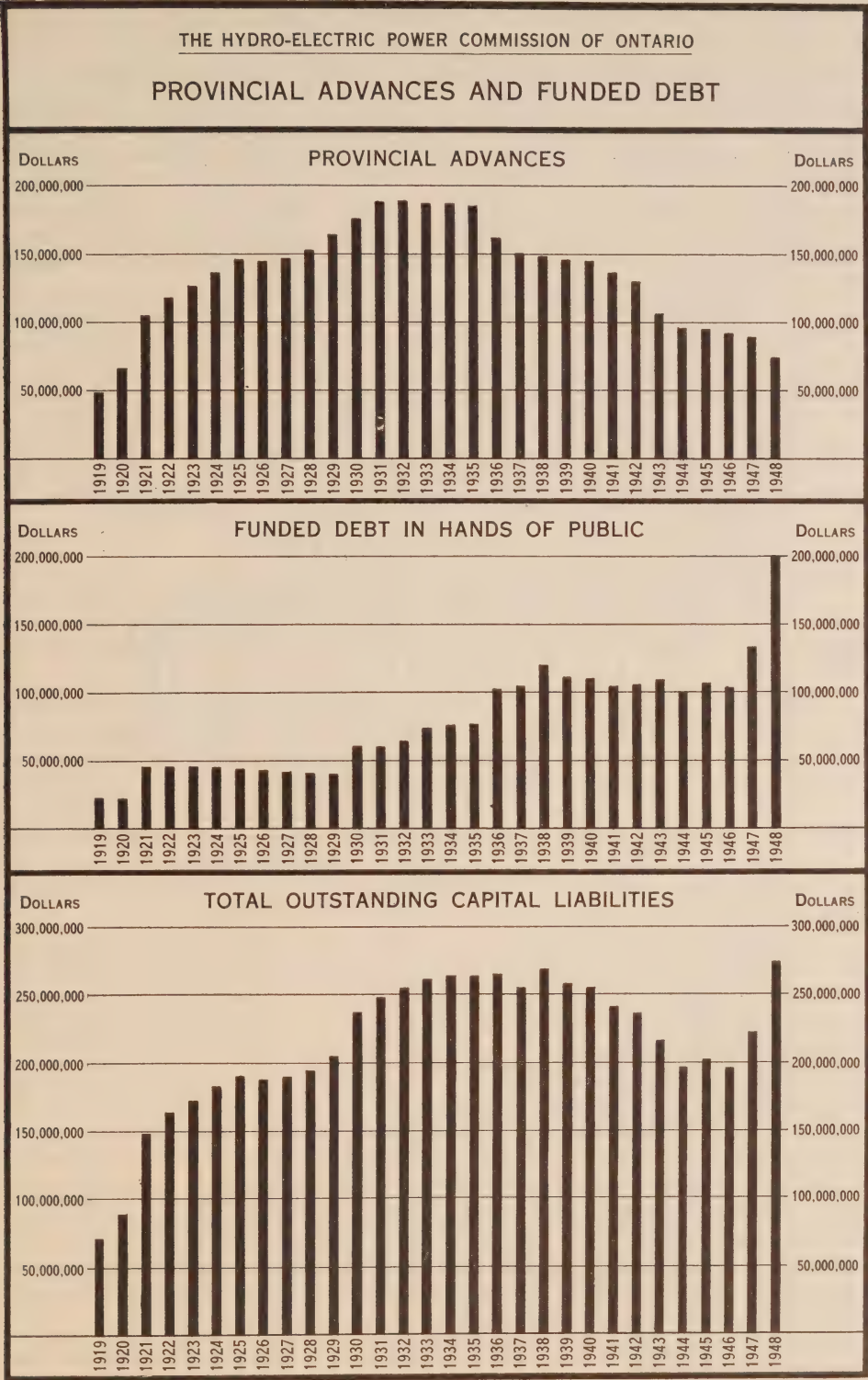
The Georgian Bay division comprises municipalities in that part of the Province which surrounds the southern end of Georgian Bay and lies to the north of the territory served by the Niagara division. It includes the districts surrounding lake Simcoe and extends as far north as Huntsville in the Lake of Bays district and south to Port Perry. Its power supplies, 60-cycle, are derived from local water power developments and by interconnection with the Niagara and Eastern Ontario divisions.

The Eastern Ontario division serves all of Ontario east of the areas comprising the Georgian Bay and the Niagara divisions. It includes the districts of Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska; formerly separate systems. Its power supplies, 60-cycle, are from local developments supplemented by purchases from other sources.

The Thunder Bay System comprises the cities of Port Arthur and Fort William, certain smaller municipalities, rural operating areas and the mining district of Longlac. Developments on the Nipigon and Agassabon rivers supply 60-cycle power.

Northern Ontario Properties

In addition to its operations on behalf of the partner municipalities, the Commission, under an agreement with the Province, holds and operates the Northern Ontario Properties in trust for the Province. For the purposes of financial administration these properties are treated as one unit. The principal areas in the vast territory of northern Ontario at present receiving service are the *Abitibi District* comprising the territory served by 25-cycle power from the Abitibi Canyon development, together with a small area in the southern portion of the district of Sudbury in which mining properties are served with 60-cycle power; the *Timiskaming District* comprising the



drainage basins of the Matabitchuan river, the Montreal river and a portion of the Mattagami river with eight generating plants, three 25-cycle and five 60-cycle; the *Sudbury District* comprising the city of Sudbury and the adjoining mining area known as Sudbury Basin; the *Nipissing District* centering around the city of North Bay on the shore of lake Nipissing; the *Patricia District* comprising the territory within transmission distance from the Ear Falls development at the outlet of lac Seul on the English river including the Red Lake mining area, and the territory immediately north of lake St. Joseph in the territorial district of Patricia served with power from a development at Rat Rapids on the Albany river; and the *Rainy River district* which derives its power from the Thunder Bay system. Included in the Northern Ontario Properties are rural operating areas on Manitoulin island, and others adjacent to the communities served in the various districts of northern Ontario. Power supplies are 60-cycle except from Abitibi Canyon development and three plants in Timiskaming district.

The geographic boundaries of the various systems and districts are shown on the maps of transmission lines and stations at the back of the Report.

The power supplies for the systems and Northern Ontario districts are listed in the first table of Section II of the Report on pages 16 and 17.

The Annual Report

The table of contents, pages xxxi and xxxii, lists the matters dealt with in the Report. At the end of the Report there is a comprehensive index. To those not conversant with the Commission's Reports, the following notes will be useful.

In Section II, pages 15 to 41, dealing with the operations of the systems, are a number of diagrams showing graphically the monthly loads on the several systems and districts. Tables are also presented showing the amounts of power taken by the various municipalities during the past two years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section IV on pages 71 to 91.

In Section VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

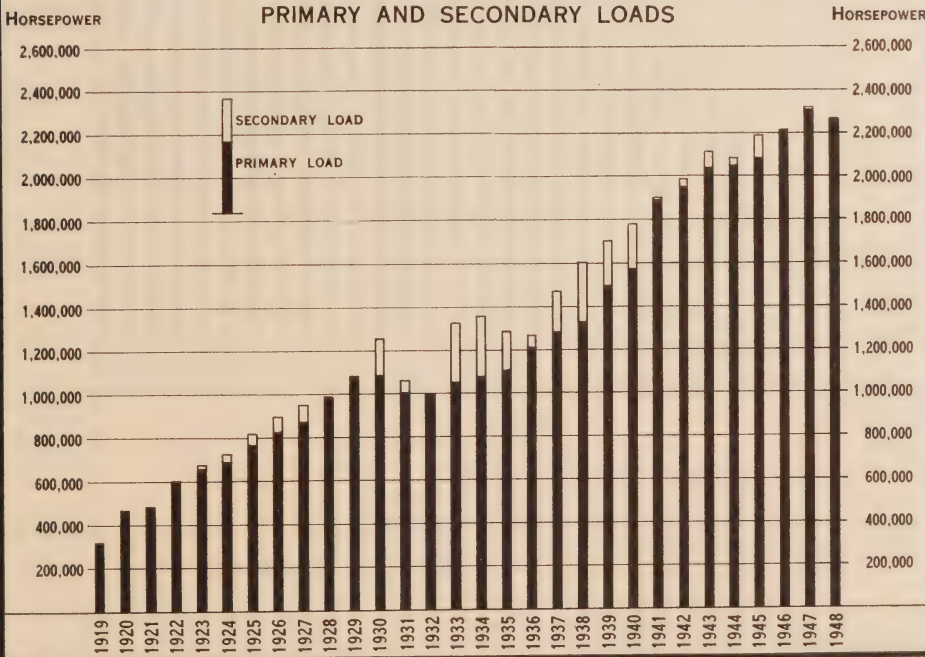
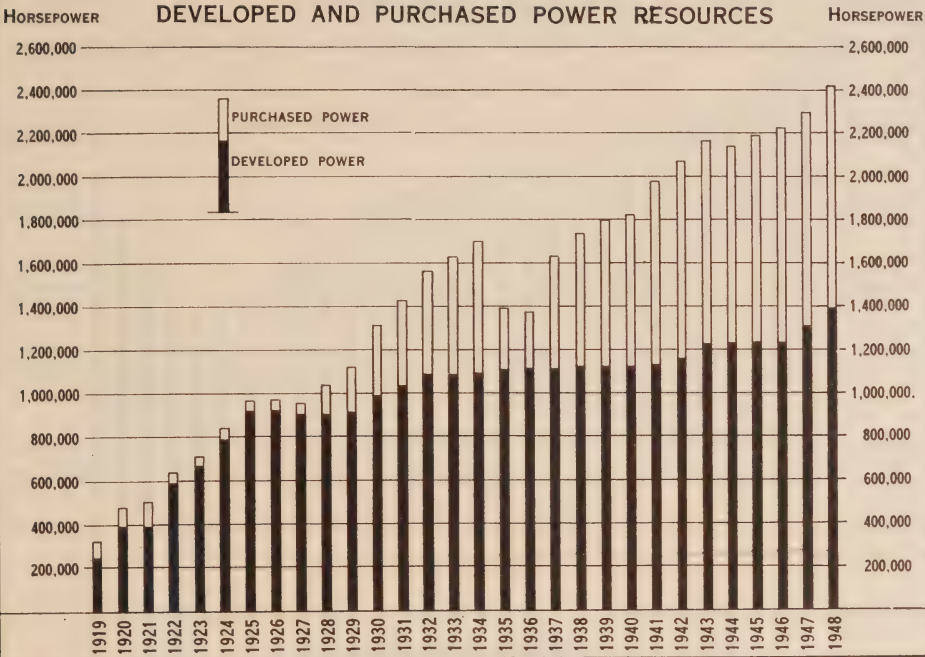
About one-half of the Report is devoted to financial and other statistical data which are presented in two sections IX and X already referred to above.

Frequent enquiries for the rates for service to consumers are received by the Commission. For the urban municipalities served by the Commission these are given in Statement "C" starting on page 340; for the rural power districts they are given in Section IV on page 78. Certain statistical data resulting from the application of the rates in urban utilities are given in Statement "D". This statement is prefaced by a special introduction starting on page 360.

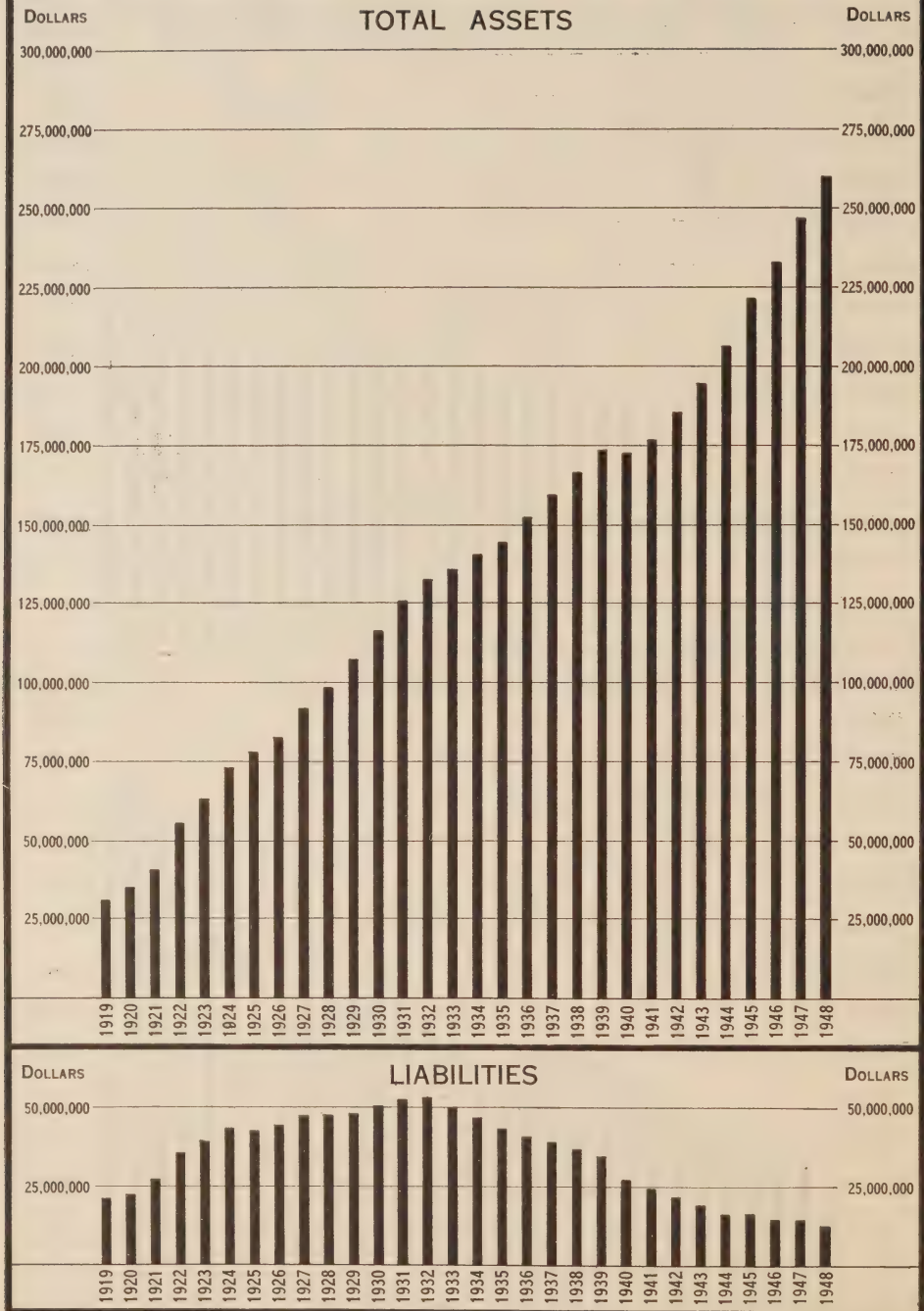
In its Annual Reports the Commission aims to present a comprehensive record of the activities of the whole undertaking under its administration, and explanatory statements are therefore suitably placed throughout the Report. The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases the enquiries can satisfactorily be answered by supplying or directing attention to information presented in the Annual Report.

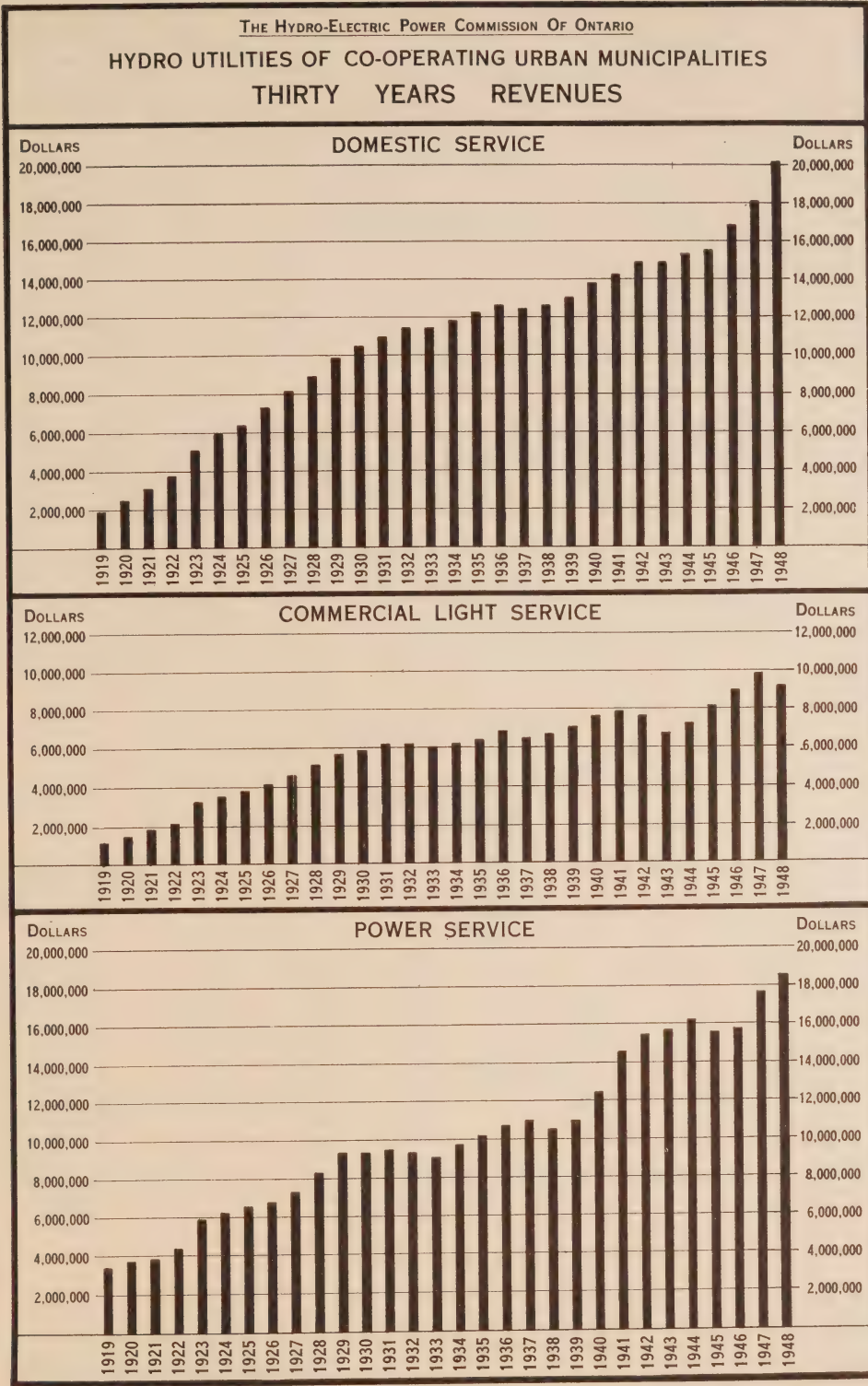
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THIRTY YEARS RECORD — SOUTHERN ONTARIO SYSTEM



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
THIRTY YEARS RECORD



SECTION I

LEGAL

AT THE 1948 Session of the Legislative Assembly of the Province of Ontario one Act respecting The Hydro-Electric Power Commission of Ontario was passed. This Act is reproduced in full in Appendix I of this Report. The short title of the Act is as follows:

The Power Commission Amendment Act, 1948, Chapter 69.

The agreements between The Hydro-Electric Power Commission of Ontario and municipalities, persons and corporations mentioned in the list hereunder given were approved by Orders-in-Council.

CO-OPERATIVE SYSTEMS

TOWN		Hagerman.....	July 22, 1948
Kearney.....	Aug. 18, 1947	Harvey.....	April 3, 1948
VILLAGES		Kennebec.....	Nov. 18, 1948
Bancroft.....	Nov. 23, 1948	McKellar.....	Jan. 12, 1948
Newboro.....	May 18, 1948	Niagara.....	Jan. 31, 1949
Stoney Creek.....	June 15, 1948	North Monaghan.....	Dec. 20, 1948
TOWNSHIPS		Oakland.....	Oct. 6, 1948
Asphodel.....	July 26, 1948	Richmond.....	Dec. 2, 1948
Asphodel.....	July 29, 1948	Roxborough.....	Nov. 18, 1948
Burford.....	Oct. 6, 1948	Ryde.....	Feb. 14, 1948
Camden East.....	Aug. 2, 1948	Schreiber.....	May 6, 1948
Carling.....	May 5, 1948	Smith.....	July 7, 1947
Cavan.....	Nov. 23, 1948	South Marysburg.....	Nov. 23, 1948
Chapman.....	July 26, 1948	South Monaghan.....	Nov. 23, 1948
Denbigh, Abinger & Ashby.....	Nov. 5, 1948	Toronto.....	June 2, 1947
Edwardsburg.....	Nov. 18, 1948	Tuckersmith.....	Dec. 6, 1947
Fenelon.....	Oct. 14, 1948	West Hawkesbury.....	May 4, 1948
Finch.....	Nov. 23, 1948	IMPROVEMENT DISTRICTS	
Galway & Cavendish.....	Mar. 6, 1948	Red Rock.....	Dec. 2, 1948
Grantham.....	Feb. 9, 1948	Red Rock (Rural Power).....	Dec. 2, 1948
		Terrace Bay.....	July 24, 1948

CORPORATIONS

American Cyanamid Company and North American Cyanamid Limited.....	April 27, 1948
Bakelite Company (Canada) Limited (amending agreement of Nov. 26, 1947).....	Jan. 17, 1949
Bakelite Company (Canada) Limited (power for construction of plant).....	Jan. 17, 1949
British American Oil Company Limited.....	Nov. 5, 1948
Brompton Pulp & Paper Company Limited.....	Jan. 17, 1949

Canada Cement Company, Limited.....	Jan. 17, 1949
Canadian Industries Limited.....	June 15, 1948
Canadian Johns-Manville Company Limited.....	Feb. 4, 1948
Canadian Steel Corporation, Limited.....	July 26, 1948
Dow Chemical of Canada, Limited.....	Oct. 28, 1948
Fiberglas Canada Limited.....	Dec. 15, 1948
Goodyear Tire & Rubber Company of Canada, Limited.....	Jan. 20, 1948
Hard Rock Gold Mines, Limited.....	Nov. 18, 1948
Hayes Steel Products, Limited.....	Feb. 18, 1948
Leitch Gold Mines, Limited.....	June 16, 1948
Lionite Abrasives Limited.....	Aug. 11, 1948
MacLeod-Cockshutt Gold Mines Limited.....	April 2, 1948
Magnet Consolidated Mines Limited.....	Jan. 17, 1949
Ontario Rock Company Limited.....	Feb. 15, 1949
Provincial Paper Limited.....	Nov. 1, 1948
Roe, A.V., Canada Limited.....	July 26, 1948
Sheaffer, W.A., Pen Company of Canada Limited.....	April 27, 1948
Thunder Bay Paper Co., Limited.....	Dec. 27, 1948
Undersill Gold Mining Company Limited.....	June 30, 1948
Wilson Lumber Sales Limited.....	July 12, 1948

NORTHERN ONTARIO PROPERTIES

TOWNS			
Capreol.....	Feb. 12, 1948	Martland.....	Sept. 28, 1948
Charlton.....	April 27, 1948	Matachewan.....	Feb. 9, 1948
		Morley and Pattullo.....	April 14, 1948
TOWNSHIPS		Nairn.....	May 18, 1948
Bonfield.....	Feb. 17, 1948	Ratter and Dunnet.....	Oct. 20, 1947
Casimir, Jennings & Appleby.....	Jan. 31, 1949	Springer.....	Aug. 11, 1948
Chamberlain.....	Jan. 5, 1948		
Coleman.....	April 14, 1948	MUNICIPALITIES	
Cosby and Mason.....	Dec. 20, 1948	Chapple.....	April 2, 1948
Dilke.....	April 6, 1948	Emo.....	July 6, 1948
Glackmeyer.....	June 25, 1948		
Hagar.....	July 26, 1948	IMPROVEMENT DISTRICTS	
James.....	Nov. 18, 1948	Atikokan.....	May 6, 1948
		Mountjoy.....	Feb. 21, 1948

CORPORATIONS

Aquarius Porcupine Gold Mines Limited.....	May 31, 1948
Armistice Gold Mines Limited.....	Jan. 17, 1949
Aunor Gold Mines, Limited.....	Aug. 11, 1948
Campbell Red Lake Mines Limited.....	April 2, 1948
Canadian National Railway Company.....	April 20, 1948
Castle-Trethewey Mines Limited.....	Jan. 17, 1949
Cathroy Larder Mines Limited.....	Oct. 14, 1948
Central Patricia Gold Mines Limited.....	Dec. 8, 1948
Chesterville Mines Limited.....	May 25, 1948
Delnite Mines, Limited.....	May 31, 1948
Estate of the Right Honourable David, Baron Davies of Llandinam, Wales.....	Feb. 13, 1948
Falconbridge Nickel Mines Limited.....	Jan. 20, 1948
Falconbridge Nickel Mines Limited.....	Jan. 31, 1949
Gold Hawk Porcupine Mines Limited.....	Aug. 11, 1948
Golden Arrow Mines Limited.....	Jan. 12, 1949
Hayes Steel Products, Limited.....	Mar. 8, 1948
Hollinger Consolidated Gold Mines Limited.....	June 16, 1948
Huronian Company, Limited and The International Nickel Company of Canada Limited.....	Feb. 18, 1948
Jerome Gold Mines Limited.....	Nov. 12, 1948
Madsen Red Lake Gold Mines Limited.....	Jan. 17, 1949
McKenzie Red Lake Gold Mines Limited.....	Dec. 8, 1948
Nakhodas Mining Company Limited.....	Dec. 2, 1948
New Jason Mines Limited.....	Dec. 8, 1948
Omega Gold Mines Limited.....	Aug. 25, 1948
Poupore, M.J., Lumber Company Limited.....	April 23, 1948
Siscoe Metals Limited.....	Nov. 12, 1948
Starratt Olsen Gold Mines Limited.....	Oct. 14, 1948

RIGHT-OF-WAY AND PROPERTY

CONTINUED expansion in the development of power sites, and the resultant construction of transmission and distribution lines created an unprecedented demand for the purchase of properties for generating stations, headwater flooding above power dams, storage reservoirs, etc. and for the acquisition of properties and easements for transformer stations and transmission line rights-of-way.

Due to the large number of rights required, it was found most difficult to maintain the Commission's policy of negotiating settlements with property owners before using their lands, but in all instances owners were interviewed and their permission secured before entry was made or work proceeded.

SOUTHERN ONTARIO SYSTEM

Excellent progress was made in obtaining lands required for the new developments on the Ottawa river. The purchase of the necessary land and flooding rights for the Des Joachims water storage area, on both sides of the Ottawa river, is now almost completed, while considerable progress was made on the surveys and in the acquisition of the land required for the Chenaux development.

With minor exceptions, the purchase of property and flooding rights for the Stewartville development on the Madawaska river is complete.

There was much work undertaken in appraising and purchasing properties throughout the system for regional offices and for rural operating area purposes.

Niagara Division

Many studies were made and consideration was given to the acquisition of property for the steam plant to be constructed near Windsor.

Some property was purchased and rights negotiated for the Westminster transformer station situated on the outskirts of London and some easement and tree-trimming rights were secured for the 110,000-volt transmission line from this station to Blackhorse transformer station near Allensburg. Easement rights were also secured for a 110,000-volt twin-pole transmission line from Sarnia transformer station to Westminster transformer station.

Several additional properties required for the DeCew Falls development were purchased.

Considerable progress was made in securing right-of-way for steel tower transmission lines originating at Des Joachims generating station and terminating at Richview junction and at Burlington and Dundas transformer stations.

Some property was purchased near Alsaw to provide a site for the Alsaw switching station.

Progress was made in securing easement rights for the 110,000-volt steel tower transmission line from Lievre junction on the Ottawa river to Richview junction on the outskirts of Toronto. This line for part of its length is parallel to the existing four circuits of the Gatineau to Toronto steel tower transmission lines, easements for two circuits of which will expire in 1959. These term easements were renewed at the same time as the necessary rights were secured for the new line.

At the La Cave development on the upper Ottawa river, studies were completed, some rights and properties purchased, and the surveys started.

Georgian Bay Division

All easement rights for the 110,000-volt twin-pole transmission line from Owen Sound transformer station to Barrie transformer station have now been secured.

There was much activity in acquiring easement rights for newly constructed rural and distribution feeder lines, particularly in the Owen Sound, Orangeville and Walkerton districts.

Eastern Ontario Division

Easement rights were secured and property purchased where necessary for the construction of the 110,000-volt steel tower transmission lines from Stewartville generating station to Calabogie and Oshawa transformer stations. In this division easement rights were secured for the large number of newly constructed rural service and feeder lines.

THUNDER BAY SYSTEM

Easement rights were obtained for rural distribution lines in the Fort Frances and Port Arthur districts.

NORTHERN ONTARIO PROPERTIES

Both land surveys and the purchase of properties are continuing at the Tunnel development on the Mississagi river. Some easement rights were secured for the 110,000-volt twin-pole transmission line from Tunnel generating station to Sudbury transformer station and a site was purchased for the new Sudbury frequency-changer station.

Progress was made in acquiring easement and timber clearing rights for the 110,000-volt transmission line from Upper Notch generating station to Crystal Falls generating station.

Some rights were purchased to provide rights-of-way for rural distribution and other low-voltage transmission lines.

GENERAL

About 5,000 acres of land were purchased and some 2,000 acres, surplus to the Commission's requirements, were sold.

To provide additional space for the Head Office administrative staff several properties were leased in the Toronto district.

SECTION II

OPERATION OF THE SYSTEMS

Continued Growth in Municipal and Rural Loads—Inadequate Precipitation and Stream Flow Reduces Power Supply— Conservation Urged and Restrictions on Use Imposed

TWO new generating stations were brought into service during 1948. One, the Stewartville development of 60,000 kilowatts (80,000 horsepower) capacity, was officially placed in service on September 25, 1948, and the other, the Aguasabon development of 40,000 kilowatts (53,000 horsepower) on October 19, 1948. In addition, a fourth unit of 5,600 kilowatts (7,500 horsepower) capacity at Ear Falls generating station, was placed in service on July 27, 1948. This new generation, together with some minor adjustments in the capacity of older stations, raised the total normal operating capacity of the Commission's 56 generating stations, to 1,436,870 kilowatts (1,926,100 horsepower) as at October 31, 1948. Compared with the previous year this was an increase of 7.4 per cent.

In 1948 the Commission took delivery of surplus power whenever and wherever available. Such deliveries during the year ending October 31, 1948, totalled approximately 757,000,000 kilowatt-hours, 82 per cent of which was supplied by the Beauharnois Light, Heat and Power Company in excess of its main contract. Owing to depleted water storages prior to the 1948 spring break-up and later in the autumn during a period of subnormal rainfall, certain Quebec suppliers of power were unable to meet their full contract commitments, with the result that the total energy purchased in 1948 was some 110,000,000 kilowatt-hours less than that purchased in the previous year.

Storm Damage

Early in January 1948 a sleet storm of unusual severity caused heavy icing of the transmission circuits in the western portion of the Niagara division, where 900 poles supporting the low-voltage lines were broken under the weight of ice-coated conductors. Nearly five days were required to re-establish service to all customers in the affected area. Electrical storms were particularly severe and numerous in the summer, causing extensive damage at many points. During 1948, however, there was no major collapse of the power system.

TOTAL POWER GENERATED

HYDRO-ELECTRIC GENERATING PLANTS

Generating plants	Maximum normal plant capacity Oct. 31, 1948 horsepower	Peak load during fiscal year		Total output during fiscal year	
		1946-47 horse- power	1947-48 horse- power	1946-47 kilowatt- hours	1947-48 kilowatt- hours
SOUTHERN ONTARIO SYSTEM					
Niagara Division					
Queenston-Chippawa—Niagara river.....	† 500,000	517,426	492,627	2,794,090,000	2,758,464,000
"Ontario Power"—Niagara river.....	† 180,000	182,976	183,646	1,115,771,000	1,146,137,300
"Toronto Power"—Niagara river.....	† 145,000	144,772	143,432	871,038,000	900,855,100
Chats Falls (Ontario half)—Ottawa river...	† 115,000	117,292	117,962	406,745,300	391,357,050
DeCew Falls (25-cycle)—Welland canal.....	† 155,000	160,858	170,509	414,024,400	512,521,700
DeCew Falls (66⅔ cycle)—Welland canal.....	50,000	50,670	52,011	198,351,500	186,951,500
Georgian Bay Division					
Big Eddy—Muskoka river.....	9,500	10,757	11,059	35,318,300	26,462,500
Ragged Rapids—Muskoka river.....	10,000	11,160	11,260	42,122,260	30,072,820
Bala No. 1 and No. 2—Muskoka river.....	600	469	442	1,218,160	1,368,720
South Falls—South Muskoka river.....	5,600	6,032	5,831	30,650,205	25,449,405
Hanna Chute—South Muskoka river.....	1,600	1,743	1,743	9,388,500	7,953,000
Trethewey Falls—South Muskoka river.....	2,300	2,279	2,279	12,009,600	7,766,400
Big Chute—Severn river.....	5,800	5,992	6,072	29,976,560	26,765,160
Wasdells Falls—Severn river.....	1,200	1,220	684	3,172,834	3,233,784
Eugenia Falls—Beaver river.....	7,500	7,828	7,775	19,257,200	13,782,400
Hanover—Saugeen river.....	400	402	389	1,397,136	1,327,104
Walkerton—Saugeen river.....	500	489	483	2,179,600	2,073,400
Caledon Electric—Credit river (Abandoned Mar. '47).....	0	550	....	410,160	.....
Nobel Steam Plant—Rented from the War Assets Corporation.....	0	4,926	....	1,096,320	.....
Eastern Ontario Division					
Sidney—Dam No. 2—Trent river.....	4,500	5,228	5,127	25,128,000	20,126,400
Frankford—Dam No. 5—Trent river.....	3,500	4,223	4,189	19,492,800	16,840,800
Sills Island—Dam No. 6—Trent river.....	2,100	2,272	2,292	10,609,840	10,920,080
Meyersburg—Dam No. 8—Trent river.....	7,000	7,842	7,741	40,298,720	35,354,340
Hague's Reach—Dam No. 9—Trent river.....	4,500	4,926	5,027	25,240,560	22,355,500
Ranney Falls—Dam No. 10—Trent river.....	11,500	11,890	11,924	61,991,840	52,845,640
Seymour—Dam No. 11—Trent river.....	4,200	4,424	4,491	20,238,720	19,185,600
Heely Falls—Dam No. 14—Trent river.....	15,300	16,086	16,086	78,856,920	68,183,320
Auburn—Dam No. 18—Trent river.....	2,400	2,614	2,681	12,221,050	11,491,150
Lakefield—Otonabee river.....	2,300	2,373	2,453	9,420,530	9,472,880
Fenelon Falls—Dam No. 30—Sturgeon river.....	1,000	932	905	4,704,465	3,793,505
Galetta—Mississippi river.....	1,100	1,247	1,186	4,156,800	4,495,000
Carleton Place—Mississippi river.....	300	0	402	.....	33,400
High Falls—Mississippi river.....	3,400	3,586	3,485	14,894,400	13,247,040
Stewartville—Madawaska river.....	80,000	.....	58,981	.....	11,901,700
Calabogie—Madawaska river.....	6,000	6,515	6,595	29,703,530	27,541,540
Barrett Chute—Madawaska river.....	56,000	56,635	57,641	237,173,400	197,796,000
THUNDER BAY SYSTEM					
Alexander—Nipigon river.....	71,000	71,046	71,046	393,257,400	400,550,400
Cameron Falls—Nipigon river.....	74,000	77,748	79,088	443,641,500	472,771,000
Aguasabon (one unit)—Aguasabon river...	26,800	.....	32,842	.....	3,108,630
NORTHERN ONTARIO PROPERTIES					
Abitibi district					
Abitibi Canyon—Abitibi river.....	† 248,000	225,201	241,287	992,948,800	1,022,290,000
Timiskaming district					
Matabitchuan—Matabitchuan river.....	12,000	11,796	12,064	47,334,328	50,725,100
Upper Notch—Montreal river.....	† 0	11,528	0	18,406,000	0
Fountain Falls—Montreal river.....	2,700	2,681	2,681	12,151,100	13,666,500
Hound Chute—Montreal river.....	4,800	4,571	4,826	21,318,554	20,384,990
Indian Chute—Montreal river.....	3,800	3,820	4,062	17,257,000	14,103,000
Lower Sturgeon—Mattagami river.....	† 8,000	8,177	8,043	43,938,557	32,156,605
Sandy Falls—Mattagami river.....	† 4,300	4,155	4,290	13,102,317	17,568,304
Wawaitin—Mattagami river.....	† 12,200	12,466	10,054	61,375,175	34,920,692
Sudbury district					
McVittie—Wanapitei river.....	3,100	3,123	3,217	16,814,400	15,740,640
Coniston—Wanapitei river.....	5,900	5,845	6,769	26,739,800	23,018,400
Stinson—Wanapitei river.....	7,500	7,708	7,802	25,021,100	20,377,310
Crystal Falls—Sturgeon river.....	10,700	11,059	10,992	38,112,000	34,219,600
Nipissing district					
Nipissing—South river.....	2,100	2,192	2,225	7,991,480	8,617,840
Bingham Chute—South river.....	1,200	1,287	1,287	5,068,300	4,805,900
Elliott Chute—South river.....	1,700	1,890	1,863	5,438,400	4,934,000
Patricia district					
Rat Rapids—Albany river.....	3,300	3,177	3,378	16,142,370	15,416,680
Ear Falls—English river.....	26,200	17,560	21,448	79,622,100	98,335,440
Manitoulin district					
Kagawong—Kagawong river (Hydraulic & Diesel).....	1,700	1,099	1,330	3,304,000	4,057,660
	1,926,100	*		8,871,333,291	8,879,893,929

*Because the peak loads on the various generating plants and purchased power sources usually occur at different times, the sum of the individual peak loads would not represent the sum of the peak loads on the systems. These, in the case of each system, must relate to the maximum load occurring at any one time. Consequently, the column headed "Peak Load" is not totalled. †25-cycle plants; others 60-cycle. ‡Being converted to 60 cycle.

AND PURCHASED—ALL SYSTEMS

POWER PURCHASED

Power sources	Contract amount horsepower Oct. 31, 1948	Total purchased	
		1946-47 kilowatt-hours	1947-48 kilowatt-hours
SOUTHERN ONTARIO SYSTEM			
Canadian Niagara Power Co.....	20,000	91,561,400	91,239,200
Department of Transport (Welland Ship Canal).....		9,572,200	4,091,900
Gatineau Power Co.....	340,000	1,666,273,400	1,423,937,700
Ottawa Valley Power Co.....	108,000	410,080,900	394,057,150
Beauharnois Light, Heat and Power Co.....	300,000	1,533,920,000	1,848,900,000
MacLaren-Quebec Power Co.....	185,000	1,013,727,800	854,176,000
M. F. Beach Estate.....	500	2,758,000	2,824,800
Rideau Power Co.....	400	1,887,500	2,430,400
Campbellford Water and Light Commission.....	800	9,964,500	8,463,700
Miscellaneous.....	.....	7,615,083	12,942,567
THUNDER BAY SYSTEM			
Kaministiquia Power Co.....	.....	24,118,400	25,257,600
Miscellaneous.....	.....	99,740	474,128
NORTHERN ONTARIO PROPERTIES			
Abitibi Power and Paper Co.....	.....	11,945,536	5,399,456
Total purchased.....	954,700	4,783,524,459	4,674,194,601

Power purchased contract amount, 1948.....	954,700	horsepower
Maximum normal plant capacity, 1948.....	1,926,100	"
Total available capacity generated and purchased, 1948.....	2,880,800	"
Total available capacity generated and purchased, 1947.....	2,748,100	"
Difference (increase).....	132,700	"
Total energy purchased, 1948.....	4,674,194,601	kilowatt-hours
Total energy generated, 1948.....	8,879,893,929	"
Total energy generated and purchased, 1948.....	13,554,088,530	"
Total energy generated and purchased, 1947.....	13,654,857,750	"
Difference (decrease).....	100,769,220	"

CAUTION: The figures for "Maximum normal plant capacity" reflect the capacity of the various plants under the most favourable operating conditions that can reasonably be considered as normal, taking into consideration turbine capacity as well as generator capacity, and also the net operating head and available water supply.

Owing, among other things, to changes in generating equipment due to wear and tear or the replacement of parts, also to changes in limitations governing water levels and effective net heads, the maximum normal plant capacity is not a fixed quantity but is one which must be revised from time to time.

It is particularly important to bear in mind that the column headed "Maximum normal plant capacity" cannot be taken as an indication of the dependable capacity of the various plants; in some cases it is, but in many cases it is not. Principal among the factors which govern the maximum dependable capacity of an hydraulic power plant and which are not reflected in column headed "Maximum normal plant capacity", are abnormal variations in water supply and operating limitations encountered when plants are so situated on a given stream as to be affected by one another.

Precipitation and Storage

The principal storage reservoirs throughout the Province were much below their normal levels on entering the 1947-48 winter season. The general light snow cover during the winter resulted in a moderate spring run-off which, although sufficient to fill most of the storage reservoirs, failed to maintain stream flow during the summer, especially in the northern areas of the Province.

The smaller run-off and light precipitation throughout the spring and summer led to rapid depletion of storage waters and when the usual late summer and autumn rains failed to materialize, a severe water shortage developed throughout Ontario. A severe water shortage also developed in the province of Quebec in the fall of 1948 and was the cause of a greatly reduced delivery of power from two of the Commission's Quebec suppliers.

In general, the water situation on entering the 1948-49 winter season was decidedly unfavourable. Considerable precipitation during the last half of November, however, resulted in a material improvement in water supply but most reservoirs still remained below normal levels for this period of the year.

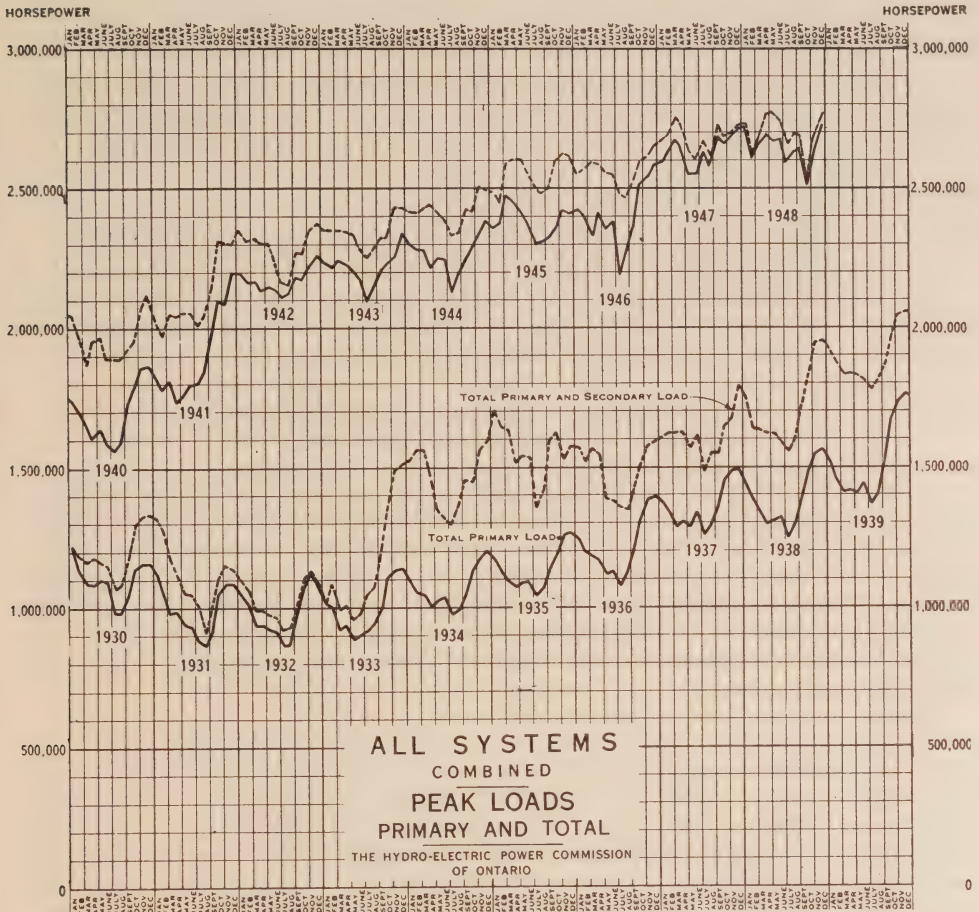
Load Conditions November 1, 1947 to October 31, 1948

Demands for power on the Commission's systems continued to rise in 1948, again exceeding all previous records. In nearly all areas demands exceeded available resources and it was necessary to resort to power rationing and restrictive measures in the supply of power to municipal and rural customers, as well as to curtail deliveries to the large industrial customers of the Commission.

The total peak on the combined systems was 2,069,000 kilowatts (2,773,000 horsepower), exceeding the corresponding peak of the previous year by 13,000 kilowatts (17,500 horsepower). The total energy output from all generated and purchased sources amounted to 13,554,088,530 kilowatt-hours. This was 100,769,220 kilowatt-hours or 0.7 per cent less than the output during the previous year.

Primary peak demands on almost every working day throughout the year exceeded available resources. In order to avoid excessive power cuts to heavy industries, an appeal to domestic consumers for the conservation of power was made early in the fall of 1947. This was followed by a modified system of rationing on November 10, 1947, and later, in February 1948 when water storages became depleted, by further steps to allocate power on an equitable basis to municipal and rural customers. Most of the restrictions were suspended by the end of March 1948 at the commencement of the spring run-off. However, power curtailments to heavy industries continued and ranged from 150,000 kilowatts (200,000 horsepower), to a maximum in December 1947, of 288,000 kilowatts (386,000 horsepower).

On September 14, 1948, restrictions were again imposed in the Southern Ontario system and municipal and rural customers were allotted a specific quota of kilowatt-hours per day, Monday to Friday, inclusive. Quotas were progressively reduced as resources shrunk, due to lack of normal autumn rain. Available resources reached their lowest point during the first half of



November after which, following fairly heavy rains over the watersheds of the Ottawa river and its tributaries, the power situation gradually improved.

The maximum primary peak demand for the fiscal year ending October 31, 1948, as represented by the actual primary load carried plus estimated industrial load cuts, was 2,234,200 kilowatts (2,994,900 horsepower). Compared with the corresponding demand of the previous year it was 3.0 per cent greater. The total primary energy demand for the year, computed in the same manner as the peak, was 13,394,700,000 kilowatt-hours as compared with 12,852,000,000 kilowatt-hours for the previous year, an increase of 4.2 per cent.

These comparisons do not fully reflect growth in demand as no allowance has been made for load reduction due to restrictions, allocations and voluntary conservation. Making an allowance for these savings, it is estimated that the October 1948 potential primary peak demand on all systems would have reached 2,350,000 kilowatts (3,150,000 horsepower). Compared with the corresponding estimated demand in October 1947 of 2,169,700 kilowatts

(2,908,400 horsepower) it indicates a growth in primary demand for the year of 8.3 per cent.

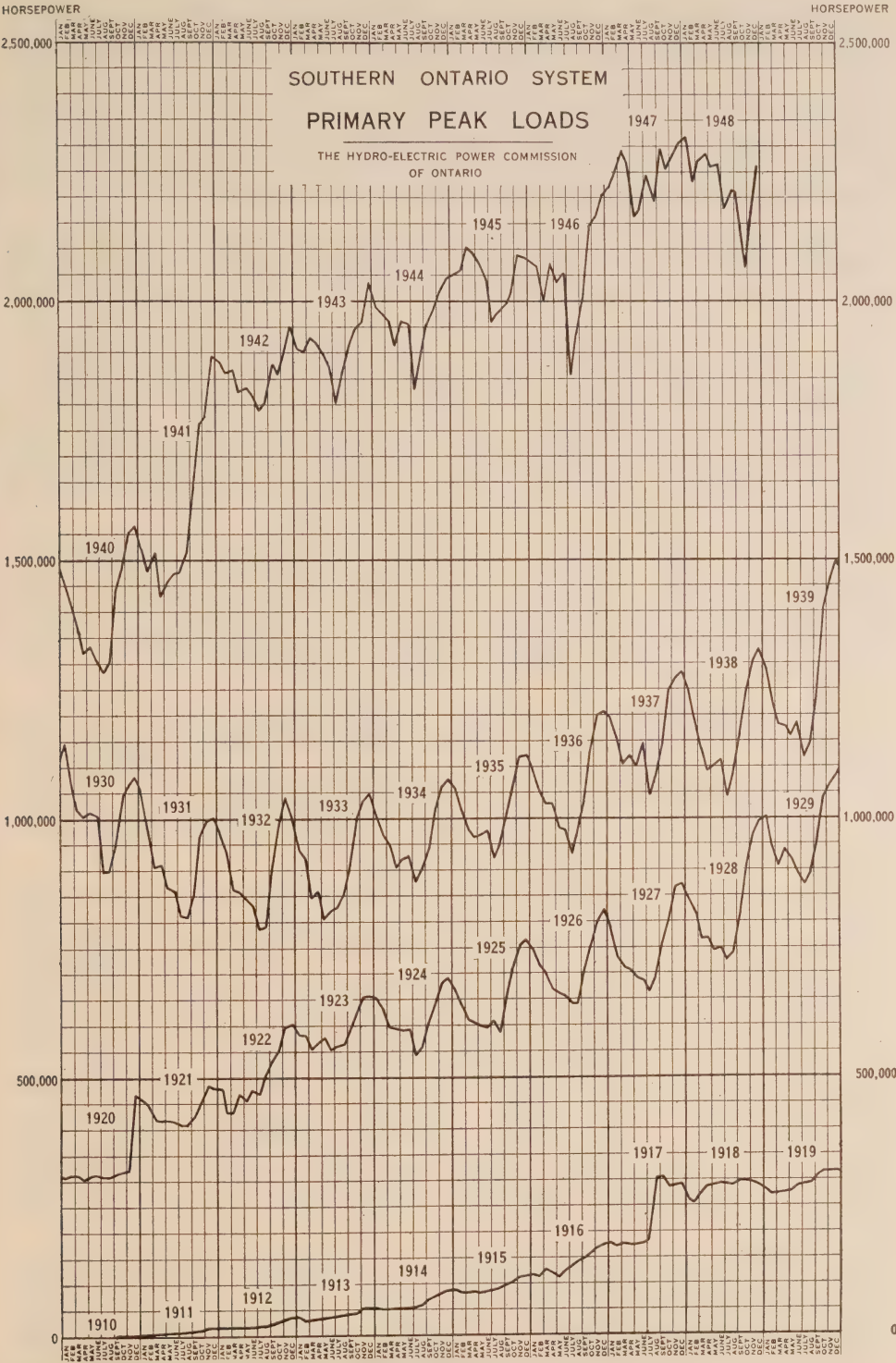
Details of peak loads are given in the load curves in this section of the Report. In the presentation of the load curves of the northern districts, the curves of the Abitibi, Sudbury and Nipissing districts, given in previous Annual Reports, have now been combined with the Timiskaming and Manitoulin districts to give the total load of the area recently organized as the Northeastern Region. This is desirable due to the further integration of these districts during 1948. It should be noted that the curves are a record of historical facts and show only the actual loads carried. Because of the load restrictions imposed from time to time, they cannot be used as an indication of the growth in power demand.

SOUTHERN ONTARIO SYSTEM

The Southern Ontario system experienced a serious power shortage in 1948. The power situation was critical during parts of February and March 1948, and again in the early fall and winter months of 1948-49. The unprecedented demands for electrical energy and a reduced power output due to lack of normal rainfall, resulted in a power shortage that taxed the ingenuity of the Commission's staff to assure a fair and equitable distribution of the available supply of power to all classes of consumers, especially during the latter part of the year.

In February and March the power situation became critical when two of the Commission's Quebec suppliers made extensive cuts in their normal deliveries because of depleted water storages. As deliveries to industrial customers supplied directly by the Commission could not be further reduced without seriously affecting employment in the Province, no alternative was left but to place all consumers on a quota basis, limiting their energy consumption to a maximum of 90 per cent of the previous October consumption, making due allowance for any interruptions that had been made in that month. With the coming of the spring break-up, the power situation improved to the extent that it was possible to lift all municipal and rural restrictions on March 31, 1948, but curtailment of the "at-will" demands of industrial customers continued over peak-load periods.

With the power demands continuing at a high level, it was evident early in the summer of 1948 that a rather severe power deficiency would develop during the coming winter season. To partially offset this deficiency, regulations restricting the use of electricity were drawn up similar to those of the previous year and planned to become effective on October 1. The gravity of the power situation became increasingly apparent as the summer advanced and the river flows dropped rapidly due to subnormal precipitation. In addition, certain Quebec suppliers also began to feel the effect of the prolonged dry spell, with the result that in late August the Gatineau Power Company gave notice that it would be obliged to cut its delivery of energy to the Commission by 1,000,000 kilowatt-hours per week. To relieve the situation, the regulations scheduled for October 1 were advanced to September 14 and at the same time municipal and rural consumers were placed on a quota basis.



These quotas were progressively decreased as the season advanced in order to avoid excessive draw on water storages supplying both Hydro plants and those of the Gatineau Power Company and the MacLaren-Quebec Power Company. By November 1 these two companies were curtailing their supplies by 19,385,000 kilowatt-hours per week, representing about 44 per cent of their total contract amount. Following heavy rains about the middle of November, the power situation on the Southern Ontario system improved materially allowing quotas to be increased.

The output of the Commission's generating stations available to the Southern Ontario system was fully and efficiently utilized throughout the year. In addition to the power available from the main purchase contracts, every effort was made, especially during the latter part of the year when power deficiencies became critical, to obtain by special arrangement any power wherever and whenever available. During the year approximately 743,000,000 kilowatt-hours were purchased for this system in excess of the deliveries made under the main purchased power agreements. In addition, approximately 9,000,000 kilowatt-hours were obtained through an arrangement with the Niagara-Hudson Power Corporation releasing the export of "Firm Power" when not required by the corporation.

The No. 1 unit at the newly constructed Stewartville development, together with associated equipment, was placed in service for the first time on September 21, as was also the 110,000-volt line connecting with existing lines at the Barrett Chute generating station. No. 2 unit was placed in service on September 28, and No. 3 unit on October 28, 1948.

The maximum peak load for both primary and secondary power on the Southern Ontario system was 1,727,976 kilowatts (2,316,322 horsepower), exceeding the corresponding peak of the previous year by 18,600 kilowatts (24,900 horsepower) or 1.1 per cent. The total energy output for the year was 1.1 per cent smaller, receding from 11,330,000,000 kilowatt-hours in the previous year to 11,210,000,000 kilowatt-hours.

Primary power demands exceeded available resources on practically every working day throughout the year, necessitating cuts to industrial customers and the power restrictions described in preceding paragraphs. The maximum peak demand (actual load plus cuts to industrial customers) for primary power purposes was 1,926,100 kilowatts (2,581,900 horsepower) as compared with 1,868,800 kilowatts (2,505,100 horsepower) in the previous year, an increase of 57,300 kilowatts (76,800 horsepower) or 3.1 per cent. Because of the allocation and restrictive measures placed on municipal and rural customers, this does not fully represent the true growth in demands for primary power. It is estimated that in October 1948 the primary peak demand would have reached 2,010,000 kilowatts, if all demands could have been met, and would have represented an increase over the corresponding demand in October of the previous year of 7.5 per cent.

Subnormal rainfall and stream flow, particularly during the latter half of the winter of 1947-48, resulted in a very serious depletion of storage waters throughout the Georgian Bay and the Eastern Ontario divisions prior to the spring run-off in 1948. A light snow cover during the winter resulted in a moderate spring freshet and this, combined with subnormal

precipitation throughout the following summer and fall months, was responsible for low reservoir levels and a serious decrease in ground water storage by the end of October 1948.

The average flow of the Ottawa river was below normal throughout the year and reached a minimum during September that was the lowest for that month since 1933. Prior to the spring freshet in 1948, the storage reservoirs on the Ottawa river watershed were almost empty and even though these were refilled during the spring run-off, subnormal precipitation throughout the following summer and early autumn resulted in below normal storage reserves at the close of the Commission's fiscal year.

Transmission Facilities Improved

To strengthen the transmission facilities between the eastern and the western sections of the Eastern Ontario division, a line 143 miles in length was placed in service early in January. A major portion of this line is of steel-tower construction, insulated for 220,000 volts but at present is being operated at 110,000 volts. A 110,000-volt line, 63 miles in length, was placed in service in July, between the Barrie and the Owen Sound transformer stations, to reinforce the power supply in the north-western section of the Georgian Bay division. To improve voltage conditions in both the Barrie

SUMMATION OF PEAK LOADS IN HORSEPOWER AS SUPPLIED TO URBAN MUNICIPAL UTILITIES AND FOR RURAL HYDRO SERVICE, SHOWING TREND OF POWER DEMANDS 1947-1948

System	Total of peak loads in horsepower		Net increase in horsepower	Number of utilities with			Total
	July to Dec. 1947	July to Dec. 1948		De- creases	In- creases	No change	
URBAN MUNICIPAL UTILITIES							
Southern Ontario....	1,595,594	1,554,664	40,930	97	211	2	310
Thunder Bay.....	50,971	55,936	4,965	0	6	0	6
Northern Ontario Properties.....	47,480	48,230	750	12	12	2	26
RURAL HYDRO SERVICE							
Southern Ontario....	207,008	236,761	29,753	4	84	0	88
Thunder Bay.....	1,577	2,081	504	0	2	0	2
Northern Ontario Properties.....	4,524	5,477	953	1	3	0	4
Total, Rural service.	213,109	244,319	31,210	5	89	0	94

NOTE: The yearly peak demands of the individual municipal Hydro utilities do not all occur during the same month of the year nor, for any given municipality, do they always occur in the same month in successive years; in nearly all cases, however, the yearly peak occurs during the second half of the calendar year. For this reason a comparison of the peaks occurring during the second half of the year as shown in the tables of this Section shows most satisfactorily the general trend of the local loads. The loads given above for Rural Hydro Service are a summation of the loads in the various operational districts and are similarly obtained.

and Owen Sound areas, a 5,000 kilovolt-amperes condenser was placed in service at the Barrie transformer station in October 1948.

Four new 110,000-volt transformer stations were placed in service at Wallaceburg, Kingsville, Scarborough and Owen Sound, involving an addition of 39,000 kilovolt-amperes in new transformer capacity. In addition, the transformer capacities at Oshawa, Frontenac, Guelph and St. Thomas were increased by a total of 41,250 kilovolt-amperes. Regulating transformers were also placed in service at York and Frontenac transformer stations to improve voltage conditions in the areas served by these stations.

Twenty-six new permanent distributing stations were placed in service and the transformer capacities of thirty-three others were increased, involving an addition of over 50,000 kilovolt-amperes of new capacity during the year to provide for growing power demands.

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1947-1948

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1947	July to Dec., 1948	Decrease hp	Increase hp
Acton.....	25	2,524.6	2,465.9	58.7	.....
Agincourt.....	25	363.8	442.0	.....	78.2
Ailsa Craig.....	25	225.5	267.0	.....	41.5
Alexandria.....	60	550.7	617.2	.....	66.5
Alliston.....	60	782.6	817.9	.....	35.3
Almonte.....	60	913.5	866.5	47.0	.....
Alvinston.....	25	204.5	179.9	24.6	.....
Amherstburg.....	25	1,713.9	1,767.3	.....	53.4
Ancaster Twp.—Voted Area.....	25	681.2	631.2	50.0	.....
Apple Hill.....	60	67.7	71.2	.....	3.5
Arkona.....	25	124.4	135.1	.....	10.7
Arnprior.....	60	1,985.3	2,209.1	.....	223.8
Arthur.....	60	315.6	331.1	.....	15.5
Athens.....	60	212.5	218.5	.....	6.0
Aurora.....	25	2,033.5	2,234.9	.....	201.4
Aylmer.....	25	1,943.2	1,833.8	109.4	.....
Ayr.....	25	436.2	466.7	.....	30.5
Baden.....	25	714.5	785.7	.....	71.2
Bala.....	60	646.1	652.8	.....	6.7
Barrie.....	60	7,026.8	6,529.0	497.8	.....
Bath.....	60	83.0	89.5	.....	6.5
Beachville.....	25	940.7	868.6	72.1	.....
Beamsville.....	25	834.4	915.7	.....	81.3
Beaverton.....	60	546.6	572.2	.....	25.6
Beeton.....	60	189.4	184.1	5.3	.....
Belle River.....	25	374.7	391.8	.....	17.1
Belleville.....	60	10,538.5	11,283.5	.....	745.0
Blenheim.....	25	1,099.7	864.1	235.6	.....
Bloomfield.....	60	259.5	297.3	.....	37.8
Blyth.....	25	195.6	304.3	.....	108.7

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1947-1948—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1947	July to Dec., 1948	Decrease hp	Increase hp
Bobcaygeon.....	60	268.1	414.3	.....	146.2
Bolton.....	25	368.5	361.4	7.1	.....
Bothwell.....	25	239.9	194.6	45.3	.....
Bowmanville.....	60	4,460.9	4,181.1	279.8	.....
Bradford.....	60	480.0	645.3	.....	165.3
Braeside.....	60	325.7	314.1	11.6	.....
Brampton.....	25	4,360.8	4,568.6	.....	207.8
Brantford.....	25	29,405.6	27,232.3	2,173.3	.....
Brantford Twp.—Voted Area.....	25	3,214.1	3,622.5	.....	408.4
Brechin.....	60	82.1	96.2	.....	14.1
Bridgeport.....	25	336.8	381.5	.....	44.7
Brigden.....	25	170.2	187.3	.....	17.1
Brighton.....	60	829.1	805.0	24.1	.....
Brockville.....	60	9,492.2	9,623.3	.....	131.1
Bronte.....	66⅔	300.3	319.6	.....	19.3
Brussels.....	25	351.2	384.5	.....	33.3
Burford.....	25	470.1	515.4	.....	45.3
Burgessville.....	25	132.4	130.4	2.0	.....
Burlington.....	66⅔	2,575.2	2,726.8	.....	151.6
Burlington Beach.....	25 & 66⅔	713.2	774.0	.....	60.8
Caledonia.....	25	571.6	572.9	.....	1.3
Campbellville.....	25	89.5	104.9	.....	15.4
Cannington.....	60	370.7	493.7	.....	123.0
Cardinal.....	60	556.5	633.3	.....	76.8
Carleton Place.....	60	2,789.5	2,921.8	.....	132.3
Cayuga.....	25	321.5	299.7	21.8	.....
Chatham.....	25	10,995.3	10,962.0	33.3	.....
Chatsworth.....	60	195.8	170.9	24.9	.....
Chesley.....	60	912.2	1,142.4	.....	230.2
Chesterville.....	60	502.1	808.6	.....	306.5
Chippawa.....	25	552.5	549.3	3.2	.....
Clifford.....	25	182.3	193.0	.....	10.7
Clinton.....	25	1,126.3	1,326.3	.....	200.0
Cobden.....	60	254.2	310.6	.....	56.4
Cobourg.....	60	3,114.3	3,997.4	.....	883.1
Colborne.....	60	402.7	412.6	.....	9.9
Coldwater.....	60	307.8	273.1	34.7	.....
Collingwood.....	60	3,786.4	4,022.4	.....	236.0
Comber.....	25	236.2	207.0	29.2	.....
Cookstown.....	60	175.9	194.2	.....	18.3
Cottam.....	25	159.0	167.0	.....	8.0
Courtright.....	25	90.6	90.1	0.5	.....
Creemore.....	60	259.0	285.0	.....	26.0
Dashwood.....	25	170.9	223.9	.....	53.0
Delaware.....	25	123.6	133.5	.....	9.9
Delhi.....	25	1,115.1	1,024.3	90.8	.....
Deseronto.....	60	431.2	491.2	.....	60.0
Dorchester.....	25	186.3	201.1	.....	14.8
Drayton.....	25	202.2	209.3	.....	7.1
Dresden.....	25	899.7	888.5	11.2	.....

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1947-1948—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1947	July to Dec., 1948	Decrease hp	Increase hp
Drumbo.....	25	155.8	186.6	.....	30.8
Dublin.....	25	80.7	104.4	.....	23.7
Dundalk.....	60	360.3	394.3	.....	34.0
Dundas.....	25	4,628.7	3,837.0	791.7	.....
Dunnville.....	25	2,283.0	2,004.3	278.7	.....
Durham.....	60	686.5	796.0	.....	109.5
Dutton.....	25	340.3	305.9	34.4	.....
East York Twp.—Voted Area.....	25	16,855.0	18,680.6	.....	1,825.6
Elmira.....	25	2,246.1	2,111.0	135.1	.....
Elmvale.....	60	337.0	325.6	11.4	.....
Elmwood.....	60	177.2	169.0	8.2	.....
Elora.....	25	724.2	815.0	.....	90.8
Embro.....	25	263.7	262.6	1.1	.....
Erieau.....	25	382.0	368.6	13.4	.....
Erie Beach.....	25	61.3	66.5	.....	5.2
Erin.....	60	200.0	200.0	.....	.....
Essex.....	25	883.5	963.6	.....	80.1
Etobicoke Twp.—Voted Area.....	25	18,993.4	21,023.1	.....	2,029.7
Exeter.....	25	1,165.8	1,358.7	.....	192.9
Fergus.....	25	1,981.2	2,083.2	.....	102.0
Finch.....	60	178.4	188.2	.....	9.8
Flesherton.....	60	169.8	181.4	.....	11.6
Fonthill.....	25	413.4	456.7	.....	43.3
Forest.....	25	827.5	883.1	.....	55.6
Forest Hill.....	25	10,494.6	9,890.1	604.5	.....
Frankford.....	60	297.0	364.4	.....	67.4
Galt.....	25	15,613.5	14,738.4	875.1	.....
Georgetown.....	25	3,121.3	3,252.2	.....	130.9
Glencoe.....	25	328.2	302.0	26.2	.....
Goderich.....	25	2,308.0	2,767.1	.....	459.1
Grand Valley.....	60	275.8	335.6	.....	59.8
Granton.....	25	110.0	113.1	.....	3.1
Gravenhurst.....	60	1,939.4	1,964.5	.....	25.1
Grimsby.....	25	1,393.6	1,276.8	116.8	.....
Guelph.....	25	16,486.6	16,058.9	427.7	.....
Hagersville.....	25	1,521.9	1,399.2	122.7	.....
Hamilton.....	25 & 66½	193,420.6	180,767.1	12,653.5	.....
Hanover.....	60	2,205.4	2,472.4	.....	267.0
Harriston.....	25	746.6	861.9	.....	115.3
Harrow.....	25	915.5	1,071.2	.....	155.7
Hastings.....	60	240.8	261.0	.....	20.2
Havelock.....	60	304.3	322.9	.....	18.6
Hensall.....	25	420.5	408.9	11.6	.....
Hepworth.....	60	53.7	72.9	.....	19.2
Hespeler.....	25	4,048.0	4,146.4	.....	98.4
Highgate.....	25	149.3	132.4	16.9	.....
Holstein.....	60	48.3	46.3	2.0	.....
Humberstone.....	25	916.2	903.1	13.1	.....
Huntsville.....	60	1,921.9	1,865.4	56.5	.....
Ingersoll.....	25	4,293.0	4,304.6	.....	11.6

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1947-1948—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1947	July to Dec., 1948	Decrease hp	Increase hp
Iroquois.....	60	476.1	461.5	14.6	.....
Jarvis.....	25	263.0	236.0	27.0	.....
Kemptville.....	60	588.6	499.7	88.9	.....
Kincardine.....	60	1,308.1	1,503.8	.....	195.7
Kingston.....	60	22,156.8	23,262.3	.....	1,105.5
Kingsville.....	25	1,019.6	1,044.4	.....	24.8
Kirkfield.....	60	45.6	49.2	.....	3.6
Kitchener.....	25	37,421.8	36,978.4	443.4	.....
Lakefield.....	60	692.0	718.4	.....	26.4
Lambeth.....	25	259.6	274.1	.....	14.5
Lanark.....	60	177.2	199.2	.....	22.0
Lancaster.....	60	83.1	93.5	.....	10.4
LaSalle.....	25	490.6	555.6	.....	65.0
Leamington.....	25	3,200.0	3,608.8	.....	408.8
Lindsay.....	60	5,064.0	5,335.5	.....	271.5
Listowel.....	25	2,185.0	2,229.9	.....	44.9
London.....	25	53,952.5	50,416.5	3,536.0	.....
London Twp.—Voted Area.....	25	859.8	866.9	.....	7.1
Long Branch.....	25	3,213.5	2,989.5	224.0	.....
Lucan.....	25	340.5	419.2	.....	78.7
Lucknow.....	60	609.3	658.9	.....	49.6
Lynden.....	25	203.5	199.9	3.6	.....
MacTier.....	60	171.1	189.8	.....	18.7
Madoc.....	60	453.6	511.9	.....	58.3
Markdale.....	60	365.1	350.4	14.7	.....
Markham.....	25	566.9	614.2	.....	47.3
Marmora.....	60	250.4	266.5	.....	16.1
Martintown.....	60	83.1	89.8	.....	6.7
Maxville.....	60	200.8	206.4	.....	5.6
Meaford.....	60	1,332.7	1,467.2	.....	134.5
Merlin.....	25	198.4	169.3	29.1	.....
Merritton.....	25	12,337.2	12,141.7	195.5	.....
Midland.....	60	5,900.5	5,698.5	202.0	.....
Mildmay.....	60	265.9	297.0	.....	31.1
Millbrook.....	60	208.6	220.6	.....	12.0
Milton.....	25	2,109.0	2,222.5	.....	113.5
Milverton.....	25	639.0	666.7	.....	27.7
Mimico.....	25	4,063.0	4,438.3	.....	375.3
Mitchell.....	25	1,090.1	1,367.1	.....	277.0
Moorefield.....	25	111.5	94.4	17.1	.....
Morrisburg.....	60	763.9	787.0	.....	23.1
Mount Brydges.....	25	178.0	163.9	14.1	.....
Mount Forest.....	60	907.7	1,060.3	.....	152.6
Napanee.....	60	2,116.5	2,220.9	.....	104.4
Neustadt.....	60	106.4	137.4	.....	31.0
Newburgh.....	60	103.8	122.5	.....	18.7
Newbury.....	25	85.1	75.1	10.0	.....
Newcastle.....	60	403.1	389.2	13.9	.....
New Hamburg.....	25	954.1	1,049.6	.....	95.5
Newmarket.....	25	2,899.8	2,891.8	8.0	.....

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1947-1948—Continued

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1947	July to Dec., 1948	Decrease hp	Increase hp
New Toronto.....	25	14,084.2	13,794.4	289.8	.....
Niagara Falls.....	25	14,682.7	13,313.0	1,369.7	.....
Niagara-on-the-Lake.....	25	1,327.2	1,379.3	.....	52.1
North York Twp.—Voted Area...	25	20,210.5	22,698.0	.....	2,487.5
Norwich.....	25	692.8	641.8	51.0	.....
Norwood.....	60	297.3	339.9	.....	42.6
Oakville.....	25 & 66 $\frac{2}{3}$	2,559.4	3,151.1	.....	591.7
Oil Springs.....	25	238.0	206.5	31.5	.....
Omamee.....	60	354.8	309.6	45.2	.....
Orangeville.....	60	1,318.7	1,369.9	.....	51.2
Orillia.....	60	1,400.8	1,428.9	.....	28.1
Orono.....	60	184.0	184.5	.....	0.5
Oshawa.....	60	24,793.0	25,030.3	.....	237.3
Ottawa.....	60	45,162.2	42,776.1	2,386.1	.....
Oterville.....	25	208.4	211.3	.....	2.9
Owen Sound.....	60	9,672.3	9,850.6	.....	178.3
Paisley.....	60	293.3	316.7	.....	23.4
Palmerston.....	25	778.8	830.2	.....	51.4
Paris.....	25	2,687.5	2,696.1	.....	8.6
Parkhill.....	25	372.7	459.5	.....	86.8
Parry Sound.....	60	958.0	694.6	263.4	.....
Penetanguishene.....	60	1,830.3	1,664.3	166.0	.....
Perth.....	60	2,535.2	2,911.8	.....	376.6
Peterborough.....	60	23,313.7	25,288.2	.....	1,974.5
Petrolia.....	25	1,297.4	1,192.6	104.8	.....
Picton.....	60	2,148.8	2,356.5	.....	207.7
Plattsville.....	25	301.6	348.1	.....	46.5
Point Edward.....	25	2,330.8	2,407.5	.....	76.7
Port Carling.....	60	522.2	643.6	.....	121.4
Port Colborne.....	25	2,962.4	2,545.4	417.0	.....
Port Credit.....	25	1,602.5	1,618.0	.....	15.5
Port Dalhousie.....	25	1,460.8	1,527.7	.....	66.9
Port Dover.....	25	963.7	973.3	.....	9.6
Port Elgin.....	60	977.5	1,135.4	.....	157.9
Port Hope.....	60	4,167.8	4,558.3	.....	390.5
Port McNicoll.....	60	184.8	187.8	.....	3.0
Port Perry.....	60	602.1	620.2	.....	18.1
Port Rowan.....	25	178.6	165.2	13.4	.....
Port Stanley.....	25	1,696.2	1,770.8	.....	74.6
Prescott.....	60	1,738.6	1,795.7	.....	57.1
Preston.....	25	5,389.0	5,620.1	.....	231.1
Priceville.....	60	25.0	25.0	.....	.....
Princeton.....	25	230.6	248.2	.....	17.6
Queenston.....	25	218.4	217.7	0.7	.....
Renfrew.....	60	1,153.8	1,437.7	.....	283.9
Richmond.....	60	134.3	155.9	.....	21.6
Richmond Hill.....	25	950.1	1,012.5	.....	62.4
Ridgetown.....	25	862.8	758.7	104.1	.....
Ripley.....	60	195.0	182.6	12.4	.....
Riverside.....	25	2,411.1	2,346.2	64.9	.....

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1947-1948—Continued

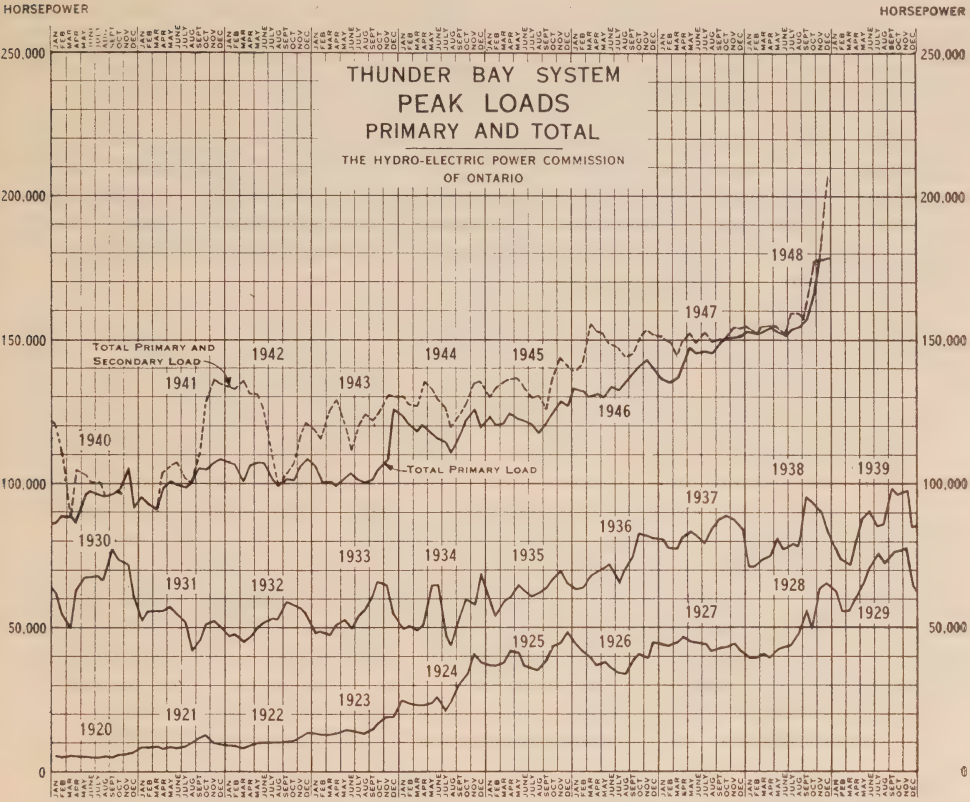
Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1947	July to Dec., 1948	Decrease hp	Increase hp
Rockwood.....	25	224.1	274.9	.....	50.8
Rodney.....	25	253.3	231.8	21.5	.....
Rosseau.....	60	74.8	98.9	.....	24.1
Russell.....	60	156.0	180.4	.....	24.4
St. Catharines.....	25 & 66½	35,155.0	31,635.5	3,519.5	.....
St. Clair Beach.....	25	154.2	154.5	.....	0.3
St. George.....	25	265.3	274.1	.....	8.8
St. Jacobs.....	25	445.7	488.6	.....	42.9
St. Marys.....	25	2,608.9	2,630.7	.....	21.8
St. Thomas.....	25	10,668.9	10,317.7	351.2	.....
Sarnia.....	25	15,345.8	13,887.1	1,458.7	.....
Scarborough Twp.—Voted Area.....	25	9,622.8	11,394.8	.....	1,772.0
Seaforth.....	25	1,362.2	1,555.7	.....	193.5
Shelburne.....	60	444.8	504.0	.....	59.2
Simcoe.....	25	3,929.2	3,725.0	204.2	.....
Smiths Falls.....	60	4,496.7	5,025.5	.....	528.8
Smithville.....	25	563.0	679.5	.....	116.5
Southampton.....	60	939.8	1,132.8	.....	193.0
Springfield.....	25	148.4	135.9	12.5	.....
Stamford Twp.—Voted Area.....	25	5,135.5	5,132.7	2.8	.....
Stayner.....	60	499.3	528.1	.....	28.8
Stirling.....	60	529.9	588.6	.....	58.7
Stoney Creek.....	25	555.2	676.0	.....	120.8
Stouffville.....	25	677.3	727.9	.....	50.6
Stratford.....	25	9,827.4	10,200.9	.....	373.5
Strathroy.....	25	2,008.7	2,329.9	.....	321.2
Streetsville.....	25	776.7	875.7	.....	99.0
Sunderland.....	60	231.4	302.5	.....	71.1
Sutton.....	25	952.5	1,018.9	.....	66.4
Swansea.....	25	4,545.7	4,338.5	207.2	.....
Tara.....	60	215.3	232.8	.....	17.5
Tavistock.....	25	887.8	907.0	.....	19.2
Tecumseh.....	25	776.7	912.5	.....	135.8
Teeswater.....	60	281.7	323.4	.....	41.7
Thamesford.....	25	388.9	402.8	.....	13.9
Thamesville.....	25	408.2	348.9	59.3	.....
Theftord.....	25	240.2	278.1	.....	37.9
Thornbury.....	60	274.0	226.7	47.3	.....
Thorndale.....	25	163.3	199.8	.....	36.5
Thornton.....	60	67.4	73.8	.....	6.4
Thorold.....	25	4,183.5	4,169.9	13.6	.....
Tilbury.....	25	1,184.7	1,336.5	.....	151.8
Tillsonburg.....	25	2,540.6	2,583.6	.....	43.0
Toronto.....	25	472,794.9	437,045.5	35,749.4	.....
Toronto Twp.—Voted Area.....	25	7,150.9	8,100.6	.....	949.7
Tottenham.....	60	236.0	140.2	95.8	.....
Trafalgar Twp.—Voted Area.....	25 & 66½	1,102.9	1,248.2	.....	145.3
Trenton.....	60	7,080.4	8,033.1	.....	952.7
Tweed.....	60	523.6	677.0	.....	153.4
Uxbridge.....	60	639.7	707.2	.....	67.5

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1947-1948—Concluded

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1947	July to Dec., 1948	Decrease hp	Increase hp
Victoria Harbour.....	60	176.0	190.7	.....	14.7
Walkerton.....	60	1,529.8	1,672.0	.....	142.2
Wallaceburg.....	25	6,995.4	8,197.6	.....	1,202.2
Wardsville.....	25	101.9	97.8	4.1	.....
Warkworth.....	60	125.2	128.8	.....	3.6
Waterdown.....	25	470.0	478.0	.....	8.0
Waterford.....	25	738.6	646.0	92.6	.....
Waterloo.....	25	8,778.8	8,394.1	384.7	.....
Watford.....	25	559.7	611.8	.....	52.1
Waubauskene.....	60	303.3	316.6	.....	13.3
Welland.....	25	13,506.4	12,914.6	591.8	.....
Wellesley.....	25	229.6	245.6	.....	16.0
Wellington.....	60	598.8	692.7	.....	93.9
West Lorne.....	25	706.3	739.3	.....	33.0
Weston.....	25	6,706.8	6,319.8	387.0	.....
Westport.....	60	180.0	208.6	.....	28.6
Wheatley.....	25	393.3	442.5	.....	49.2
Whitby.....	60	2,376.9	2,342.4	34.5	.....
Warton.....	60	691.5	783.4	.....	91.9
Williamsburg.....	60	160.6	147.8	12.8	.....
Winchester.....	60	697.3	746.8	.....	49.5
Windermere.....	60	159.8	176.8	.....	17.0
Windsor.....	25	64,749.6	62,062.5	2,687.1	.....
Wingham.....	60	1,237.6	1,492.3	.....	254.7
Woodbridge.....	25	1,101.7	1,333.6	.....	231.9
Woodstock.....	25	10,793.3	11,402.9	.....	609.6
Woodville.....	60	174.6	187.1	.....	12.5
Wyoming.....	25	190.4	231.1	.....	40.7
York Township.....	25	32,920.0	34,378.3	.....	1,458.3
Zurich.....	25	210.2	232.7	.....	22.5

SOUTHERN ONTARIO SYSTEM—LOADS OF NEW MUNICIPALITIES

Municipality	Frequency cycles	Date connected	Peak load in horsepower		Change in load	
			Initial	July to Dec., 1948	Decrease hp	Increase hp
Newboro.....	60	Dec. 2, 1948	48.2	48.2	.....	.....



THUNDER BAY SYSTEM

During the greater portion of the year, or until one unit at the Aguasabon development became available on October 19, 1948, the Thunder Bay System was in short supply over peak-load periods on many days. Regulatory restrictions were in effect on this system from November 10, 1947, to September 14, 1948. After December 1, 1947, the regulations applied only during the daytime hours from 8:00 a.m. to 4:00 p.m. In addition, it was necessary to curtail power deliveries to the paper companies over peak load periods on a number of days. The curtailments were usually of short duration and for the entire year totalled 2,057,000 kilowatt-hours.

Except for a period in January and February when the output of the Alexander generating station was affected by ice conditions, the Nipigon river plants operated at full normal capacity, producing 873,321,400 kilowatt-hours for the fiscal year ending October 31, 1948. The Aguasabon generating station, which was in service during the last twelve days of the year, generated 3,108,630 kilowatt-hours. The Kakabeka Falls generating station of the Kaministiquia Power Company operated in parallel with the Thunder Bay system throughout almost the entire year and supplied up to 6,900 kilowatts (9,200 horsepower) of primary power. In all the company supplied 25,257,600 kilowatt-hours, of which 8,418,080 kilowatt-hours were used to meet primary

load demands and the balance was supplied to the electric boilers of the Provincial Paper Company and the Thunder Bay Paper Company. The demands of the Rainy River rural operating area, 474,128 kilowatt-hours, were purchased from the Ontario-Minnesota Pulp & Paper Company.

The maximum peak carried on the system was 132,210 kilowatts (177,225 horsepower). This peak occurred after the Aguasabon development became available and, compared with the corresponding peak of the previous year, shows an increase of 15.8 per cent. The total energy generated and purchased during the year amounted to 902,161,700 kilowatt-hours, exceeding the previous year's production by 4.8 per cent.

The maximum primary peak demand, as represented by the actual primary load carried plus cuts to industrial customers supplied directly by the Commission, was 126,110 kilowatts (169,048 horsepower) as compared with 113,170 kilowatts (151,700 horsepower) in the previous year, an increase of 11.4 per cent. Primary energy demands similarly computed rose 10.3 per cent.

The steel tower transmission line, 64 miles long, between Alexander generating station and Terrace Bay, which was placed in service last year to supply construction power at 44,000 volts to the Aguasabon development and the Long Lac Pulp & Paper Company, was put into permanent service at 110,000 volts on August 1. At the same time a 1,500 kilovolt-amperes transformer bank was placed in service to supply power to customers in the Terrace Bay Improvement Area.

THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES—1947-1948

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1947	July to Dec., 1948	Decrease hp	Increase hp
Atikokan Townsite.....	60	268.1	440.2	.....	172.1
Beardmore Townsite.....	60	280.6	317.3	.....	36.7
Fort William.....	60	21,402.1	22,405.4	.....	1,003.3
Geraldton Townsite.....	60	946.6	998.4	.....	51.8
Nipigon Twp.—Voted Area.....	60	463.2	647.0	.....	183.8
Port Arthur.....	60	27,610.5	31,127.3	.....	3,516.8

THUNDER BAY SYSTEM—LOADS OF NEW MUNICIPALITIES

Municipality	Frequency cycles	Date connected	Peak load in horsepower		Change in load	
			Initial	July to Dec., 1948	Decrease hp	Increase hp
Red Rock Improve- ment District.....	60	Feb. 15, 1948	50	435.9	.....	385.9
Schrieber.....	60	Nov. 8, 1948	200	238.3	.....	38.3
Terrace Bay Improve- ment District.....	60	Jan. 1, 1948	110	832.7	.....	722.7

NORTHERN ONTARIO PROPERTIES

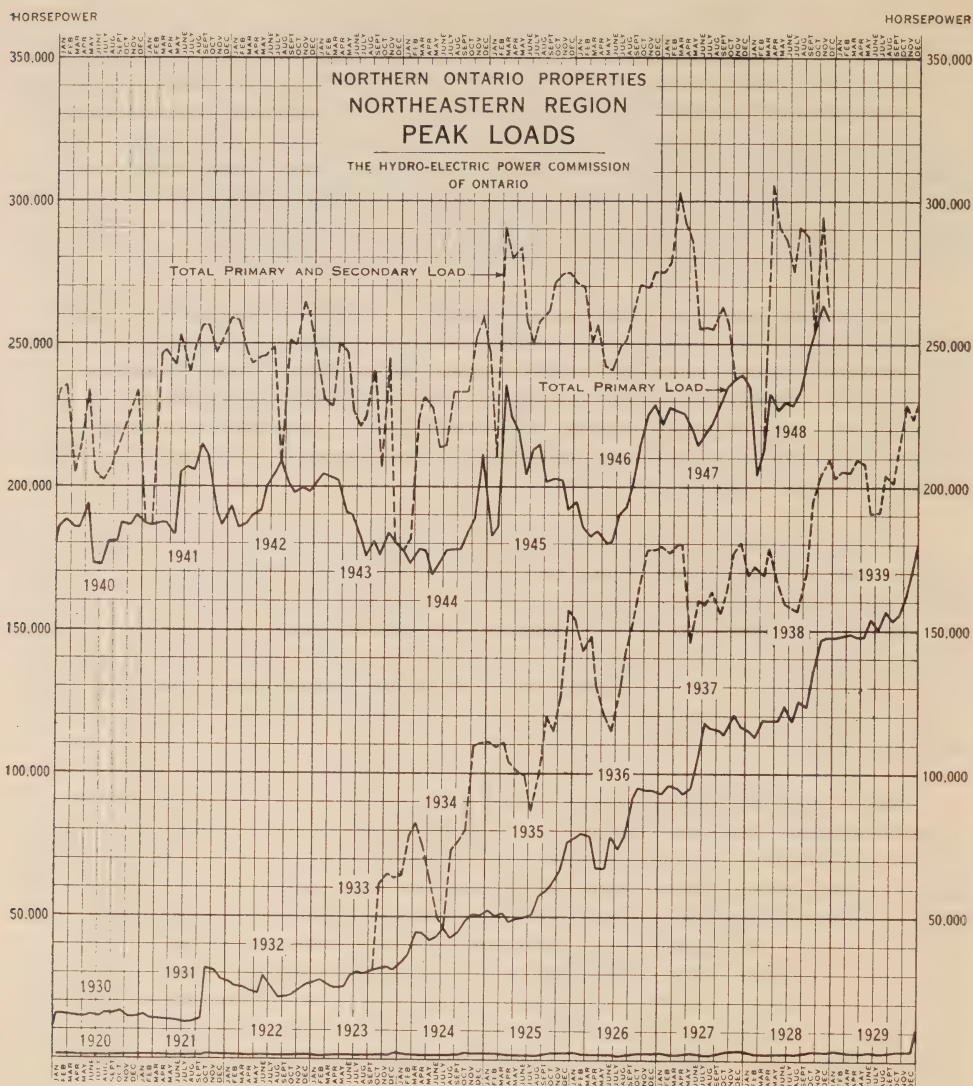
The primary demands of the Northern Ontario Properties obtained by the addition of the primary peak demands of the districts of Abitibi, Timiskaming, Sudbury, Nipissing, Patricia and Manitoulin, rose from 188,340 kilowatts (252,466 horsepower) in October 1947, to 208,952 kilowatts (280,100 horsepower) in October 1948, an increase of 10.9 per cent. The corresponding energy demands exceeded those of the previous year by 8.1 per cent.

During the year, the areas served by the Abitibi, Timiskaming, Sudbury and Nipissing districts, which comprise most of the Northeastern Region, were further integrated by the addition of a 110,000-volt line extending from the Upper Notch generating station in the Timiskaming district to the Crystal Falls generating station in the Sudbury district, and a fourth frequency-changer set of 3,125 kilovolt-amperes capacity was installed at the Kirkland Lake transformer station.

To provide for new and increasing loads, the capacity of the Timmins transformer station was increased by 16,500 kilovolt-amperes, and two new 110,000-volt stations, known as the Kerr-Addison and Azilda transformer stations, of 15,000 and 1,000 kilovolt-amperes capacity respectively, were placed in service; one to serve the Kerr-Addison Mining Company and the other to supply the Nickel Offset Mine. The Monteith transformer station was dismantled in November 1947, and the transformer was installed in the new Azilda station.

Subnormal rainfall in October and November 1947, resulted in greatly reduced stream flows and depletion of water storages. It became evident in the latter part of January 1948, that, in spite of the savings under the November 10, 1947, regulations, there would be insufficient water to generate the then existing demands through to the spring run-off. Consequently, on February 1, all customers in the area served by the Northeastern region were requested to limit their consumption to a maximum of 85 per cent of the total kilowatt-hours used in the previous November. At the same time the November 10 regulations were suspended and customers were free to use the power allotted to them in any manner they wished. The co-operation of all consumers in effecting a reduction in the use of electricity was most gratifying and with the improvement in the water situation all restrictions were removed on March 24, 1948.

The 1948 spring run-off was of moderate proportions and while sufficient to fill most of the storage reservoirs, failed to maintain stream flows during the summer and early fall. When the usual rains failed to materialize in the fall of 1948, it became necessary to start drawing on storage water much earlier than customary. This caused a rapid depletion of water storage reserves and, on November 8, all customers in the Northeastern region were placed on a weekly quota of kilowatt-hours equal to 87 per cent of their normal requirements. Shortly afterwards, heavy rains occurred causing a flash-flood condition and on November 11 quotas to mining customers were temporarily lifted. Restrictions to municipal and rural customers however continued to December 10 when the quota was raised 8 per cent.



Abitibi District

From October 1947 to October 1948, the primary peak loads of the Abitibi district rose from 110,740 kilowatts (148,445 horsepower) to 128,600 kilowatts (172,386 horsepower), an increase of 16.1 per cent. The year's primary energy demands exceeded those of the previous year by 10.9 per cent.

Production at the Abitibi Canyon plant during the year totalled 1,022,290,000 kilowatt-hours, an increase over the previous year of 3.0 per cent. During the critical water situation in the winter of 1947-48, 4,240,800 kilowatt-hours were purchased from the Abitibi Electric Development Company. Of the total generated and purchased power, 825,353,176 kilowatt-hours were for primary power purposes within the district. During periods of high river flow, surplus power was generated to the extent of 107,622,944

kilowatt-hours, which was delivered to the Abitibi Power & Paper Company for electric boiler operation. In addition, 93,554,680 kilowatt-hours were transferred to the districts of Timiskaming, Sudbury and Nipissing to relieve power deficiencies.

Timiskaming District

Power demands in the Timiskaming district dropped below those of the previous year. The peak receded from 38,425 kilowatts (51,508 horsepower) in October 1947, to 36,900 kilowatts (49,464 horsepower) in October 1948, a decrease of 4.0 per cent. Energy demands for the entire year were 4.3 per cent smaller.

The eight generating stations in this district, one of which (Upper Notch) was out of service throughout the year for conversion from 25 to 60-cycle operation, produced 183,525,191 kilowatt-hours during the year, a decrease from the previous year of 21.9 per cent. The district's yearly demand exceeded the output by about 65,000,000 kilowatt-hours, this deficiency was supplied from the Abitibi district.

Sudbury District

During the winter of 1947-48, power demands exceeded the 60-cycle resources available to the district and some curtailment of power demands was necessary. During this deficiency period, power was purchased from the Abitibi Power & Paper Company to the amount that the Company had in excess of its own requirements. From this source 1,158,656 kilowatt-hours were obtained.

The October 1948 peak demand in the Sudbury district was 21,420 kilowatts (28,713 horsepower) as compared with the demand (actual load plus cuts) in the previous October of 19,850 kilowatts (26,609 horsepower), an increase of 7.9 per cent. Total energy demands during the year were 5.7 per cent greater.

Nipissing District

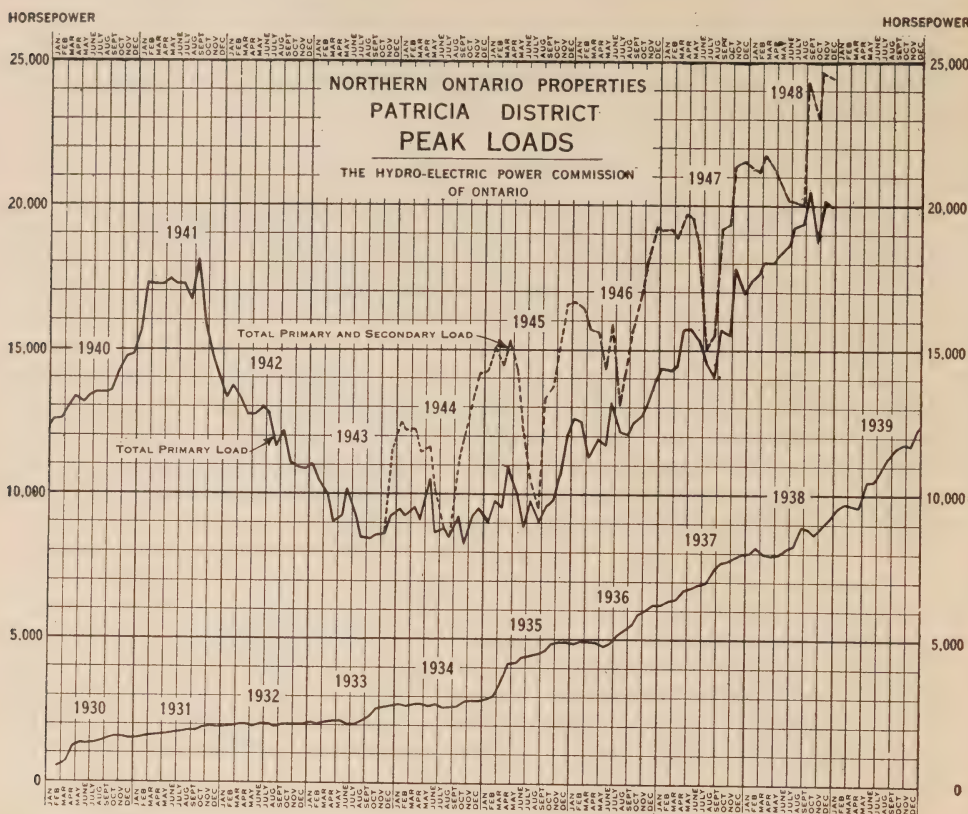
The Nipissing district peak load was 7,020 kilowatts (9,410 horsepower) in October 1948. Compared with the peak load for the previous October, it shows an increase of 1.0 per cent. Energy demands during the year were 7.3 per cent greater.

The generating capacity of the South river plants, which supply this district, was inadequate to meet the district load demands and it was necessary to bring in 18,760,890 kilowatt-hours from other northern districts.

Patricia District

The Patricia district has no physical connections with any of the other northern districts. The resources available to the district were adequate to meet all primary demands and, in addition, supplied 18,347,440 kilowatt-hours for the operation of electric boilers of four mining customers.

The district primary peak loads in October 1947 and 1948 were 11,555 kilowatts (15,489 horsepower) and 14,020 kilowatts (18,794 horsepower),



respectively, showing an increase of 21.3 per cent. The primary energy demands for the year rose 27.3 per cent.

A fourth unit at the Ear Falls generating station was officially placed in service on July 27, 1948, raising the capacity of this generating station to 19,600 kilowatts. To provide for new and increasing loads, transmission facilities were strengthened by the addition of two, 110,000-volt lines; one from the Ear Falls generating station to the Dryden Paper Company, and the other from the Ear Falls generating station to the Red Lake mining area. Both lines, however, were placed in service at 44,000 volts, to be raised to 110,000 volts when load conditions warrant.

Manitoulin District

The Manitoulin district load rose from 820 kilowatts (1,099 horsepower) in October 1947, to 992 kilowatts (1,330 horsepower) in October 1948, an increase of 21 per cent. The year's energy requirements increased 22.8 per cent.

All demands in this district were met throughout the year. To provide for future growth, two Diesel units, formerly at the Caledon generating station in the Georgian Bay division, were placed in service at the Kagawong generating station on February 18, 1948. These two units, together with the

original hydraulic units and the two Diesel units installed in 1946, provide a generating capacity for the district of 1,275 kilowatts. The Diesel units were operated quite extensively during the late summer and fall months in order to conserve water for the operation of the hydraulic units during the winter.

Rainy River District

Power for the Rainy River district is supplied from the Thunder Bay system, except for the Rainy River rural operating area which is supplied by power purchased from the Ontario-Minnesota Pulp & Paper Company. During the year the average of the monthly peak loads supplied to the Rainy River district was 13,959 kilowatts (18,712 horsepower), being 1,005 kilowatts (1,347 horsepower) in excess of the corresponding average of the previous year.

In the load statistics the load of the Rainy River district is included in the primary load of the Thunder Bay system.

NORTHERN ONTARIO PROPERTIES—LOAD OF MUNICIPALITIES—1947-1948

Municipality	Frequency cycles	Peak load in horsepower		Change in load	
		July to Dec., 1947	July to Dec., 1948	Decrease hp	Increase hp
ABITIBI DISTRICT					
Hislop Townsite.....	25	79.2	63.3	15.9	.....
Kearns Townsite.....	25	171.6	219.0	.....	47.4
King Kirkland Townsite.....	25	67.6	61.1	6.5	.....
Matachewan Townsite.....	25	258.0	288.1	.....	30.1
Matheson.....	25	236.0	203.3	32.7	.....
Mooretown.....	25	90.3	124.3	.....	34.0
Ramore.....	25	91.4	73.1	18.3	.....
Swastika.....	25	465.1	390.9	74.2	.....
TIMISKAMING DISTRICT					
Earlton.....	60	259.0	234.7	24.3	.....
Englehart.....	60	289.5	291.6	.....	2.1
Haileybury.....	60	1,239.9	1,103.0	136.9	.....
New Liskeard.....	60	1,776.4	1,927.0	.....	150.6
Schumacher.....	25	1,133.0	1,221.1	.....	88.1
South Porcupine.....	25	1,660.9	1,467.8	193.1	.....
Teck Township.....	60	5,942.8	5,586.5	356.3	.....
Timmins.....	25	9,055.0	9,508.0	.....	453.0
SUDBURY DISTRICT					
Capreol.....	60	713.1	703.2	9.9	.....
Sudbury.....	60	14,317.1	14,881.1	.....	564.0
NIPISSING DISTRICT					
Callander.....	60	169.3	178.0	.....	8.7
Nipissing.....	60	3.0	3.0	.....	.....
North Bay.....	60	7,799.8	7,700.6	99.2	.....
Powassan.....	60	232.3	233.0	.....	0.7
PATRICIA DISTRICT					
Cottage Cove.....	60	198.6	198.6	.....	.....
Hudson.....	60	149.3	148.0	1.3	.....
Red Lake Townsite.....	60	530.8	620.9	.....	90.1
Sioux Lookout.....	60	551.9	800.3	.....	248.4

MAINTENANCE OF PLANT AND EQUIPMENT

Generation

The main items of maintenance work in the Commission's generating stations, apart from the usual routine inspection and minor repairs in 1948, were the complete overhaul of two large units and several small units in the generating stations supplying power to the Southern Ontario system. The 45,000 kilovolt-amperes frequency-changer set located in the Chats Falls generating station was also given a complete overhaul, and the turbine runners in two of the Chats Falls units and in one of the units at Barrett Chute were replaced. In the northern districts two, 45,000 kilowatts units at the Abitibi Canyon plant were completely overhauled and rehabilitation of the generating stations in the Timiskaming district continued from the previous year.

Transmission

Defective poles and crossarms on many miles of transmission pole lines were replaced during the year. On the 110,000-volt line between the Cameron Falls generating station and the Long Lac transformer station, 100 miles in length, in the Thunder Bay system, many defective poles were replaced. In order to reduce service interruptions to important mining customers in the area, a considerable portion of the work was performed while the conductors were alive, using special live line tools and a special procedure for carrying out the work. Painting of deteriorated galvanized steel towers was carried out on 110,000-volt lines, 225 towers were on double-circuit lines and 38 were on four-circuit lines.

Insulators were tested and defective ones replaced on 411 circuit miles of 110,000-volt lines and on 40 circuit miles of 44,000-volt lines. Transmission circuits in the Scarborough and Kitchener areas of the Southern Ontario system have been re-insulated to increase the carrying voltage from 13,200 to 26,400 volts.

Transformation

Compared with previous years, there were relatively few transformer failures in 1948. To provide for increased loads and more stable operating conditions throughout the various systems, a number of new stations were placed in service and the capacities of existing stations were increased, involving the addition of approximately 165,000 kilovolt-amperes in new transformer capacity.

FORESTRY WORK

In keeping with the Commission's policy of decentralization of the administration of its day by day operations many changes in the Forestry organization were made during the year. Forestry superintendents were appointed in the seven regions of the Southern Ontario system relieving the chief forester and his staff of the details of field activities. It is expected that Forestry superintendents will be appointed in the Northeastern and North-western Regions early in 1949. Delivery of transportation equipment and tools ordered in 1946 permitted the mobilization of three squads which



MECHANICAL TREE PLANTER IN OPERATION



TREE PLANTING ALONG POWER CANAL

Protective tree planting along the banks of the Queenston-Chippawa power canal

brought the establishment to pre-war strength. An additional three squads were organized to start the expansion program made necessary by the increased volume of work allotted to the regional Forestry staffs.

The private tree-expert companies who qualified for line-clearing contracts supplied nine crews to augment the Commission's staff.

A Forestry engineer was appointed to be responsible for the management of the Commission's forest land. Some 12,000 acres are involved, 80 per cent of which is under forest cover while 20 per cent requires reforestation.

Line Clearing Operation

The following tabulation shows the work performed on transmission, rural and municipal line-clearing operations during the fiscal year 1947-48, exclusive of the work done by linemen.

SUMMARY OF LINE CLEARING OPERATIONS

	Brush cutting, pole spans	Trees treated	Miles of line cleared	Tree density per mile
Bell Telephone Co. joint use of poles.....		48	1	48.0
New line construction.....	6	6,884	121	56.9
Municipal Hydro systems (13).....	6	2,398	32	74.9
Transmission and telephone lines.....	262	44,319	2,166	20.5
Rural operating areas.....	99	51,116	1,005	50.9
Total.....	373	104,765	3,325	31.5

Forest Management

Land use and forest surveys were made of Commission-owned properties in the Niagara Region, comprising approximately 2,700 acres, as shown in the following tabulation. Commission approval has been obtained for development of the forested areas and of lands suitable for reforestation.

LAND USE CLASSIFICATION—NIAGARA REGION

Class	Area in acres
Land under cultivation.....	703.59
Idle land suitable for reforestation.....	749.61
Submarginal land, (this area may be reduced by special treatment.)...	678.66
Land under woodlot.....	198.58
Land reserved or used for other purposes.....	356.09
Total.....	2,686.53

Approximately 25,000 trees were planted along the banks of the Chippawa canal and Welland river. Most of these trees were planted by means of a mechanical tree planter powered by a Fordson tractor.

East Central and Georgian Bay Regions

The plantations at Sidney and Eugenia were almost free from the spruce and pine sawflies, and the few flies that were observed were kept under control by the use of DDT powder applied by hand dusting machines.

Power Spraying

Trees and shrubberies on the more important properties in six of the nine regions were sprayed with chemical mixtures for the control of insects and fungus diseases. Spraying of lawns and stoned areas for control of weeds was extended. Experimental spraying of underbrush on rights-of-way, involving the application of several chemicals, was undertaken in seven of the nine regions in collaboration with the Research division. Results were satisfactory but full extent of chemical action, killing of root systems and regrowth will not be known until next spring. The following summary shows the extent of all spraying operations.

Type of spray	No. of properties	Chemicals applied	Acreage	Gallons applied
Dormant.....	31	Miscible oils	.....	7,426
Calyx.....	3	{ Arsenate of lead Bordeau mixture	.....	700
Foliage.....	33	{ Arsenate of lead Bordeau mixture Nicotine sulphate	.....	10,852
Total tree and shrubbery spraying...				18,978
Weed control spraying, lawn areas...	51	2-4D	93.37	23,380
Experimental brush spraying, Rights-of-way		Herbata Ammate Esteron 44 2, 4-D & 2, 4, 5-T Shell 3X	13.93 32.58 9.88 7.62 2.00	2,250 7,770 1,370 1,416 180
Total brush control spraying on R/W (Experimental).....			66.01	12,986

Training of Personnel

Arrangements were made with the training officer to give standardized training and instruction to forestry personnel at the Commission's training centre. Forestry superintendents, prior to their appointment, were given a month's training in management procedure and office routine. During the fiscal year sixty-eight foresters in the higher classifications were given a three weeks' refresher and supervisory training course. Twenty-six foresters in the beginners classification completed a two months' elementary course consisting of a month in theory and technical training at the school and one month practical training in the field. Short courses in the operation and maintenance of power saws were given to a selected group of experienced personnel.

SECTION III

THE COMMISSION AND ITS CONSUMERS

General Activities—Municipal Load Conditions—Power Restrictions
—Frequency Standardization Under Way—Regional Operations
—Industrial Consumers—Electrical Inspection

AT THE END OF 1948 the Commission was serving 970 municipalities in Ontario. Of this number about two-thirds or 623, including 135 villages and 488 townships or improvement districts, are served as an amalgamated rural division of Hydro service (dealt with in Section IV of this Report), and about one-third or 304 are supplied with power by the Commission under cost contracts and operate their own Hydro utilities, either as a separate service or as part of a public utilities organization. In addition, 43 municipal Hydro utilities are operated directly by the Commission or are served under other forms of contract. This section of the Annual Report deals with the work of the Commission in connection with all these urban municipalities, either directly or through the regional offices. It also refers to the Commission's activities in connection with industrial service customers and with electrical inspection.

Many municipalities spent considerable funds in improving and enlarging their facilities and on this work they obtained engineering advice from the Commission. Available funds were in some instances totally utilized to meet the cost of the plant extensions and debentures were issued to provide additional money.

There were a few municipalities where rates were revised or rebates to consumers were made when it became evident that the financial condition of the electric utility in each instance would justify the action that was taken. No general revision of rates in municipalities was made.

Frequency standardization was further studied and legislation to provide for this important step was passed. Municipalities were then advised to plan for this program and the Commission proceeded to set up an organization and make necessary plans and methods of procedure to enable work to be actually started in 1949.

Power Restrictions

Voluntary restriction of the use of electrical power which was planned in the spring of 1947 was instituted in the fall of that year, when it became apparent that the Commission's sources of power supply would be inadequate. Mandatory powers which had been obtained at that time were put in force on November 10, 1947 and continued throughout that winter until February 1948 when a critical situation developed due to low water flow in sections of the Province, making further restrictions necessary until March 31, 1948, when all regulations for conserving power were suspended. In September 1948 a prolonged dry spell, affecting the Commission's generating plants and sources of purchased power, indicated that drastic action to control the use of available supplies of power in southern Ontario would be necessary, and regulations were again enforced on September 14. With the drought continuing and conditions becoming worse, the Commission was compelled to establish quotas restricting the amount of daily energy allotted to each municipality. Further details are given in Section II of this Report.

A comparison of the average load supplied during 1948 to cost-contract municipalities with that supplied during 1947, indicates an increase in about 80 per cent of the municipalities. This is particularly noticeable in villages and suburban areas adjacent to large urban centres. The percentage increase is as follows: Cities 1.9 per cent; towns 4.5 per cent; voted areas (suburban adjacent to large urban centres) 11.8 per cent; villages 8.7 per cent and police villages, etc. 9.1 per cent; total of all municipal loads 3.2 per cent.

Of the 304 urban Hydro utilities shown in the Commission's financial statement for Southern Ontario and Thunder Bay systems, 257 show increases in average load and 47 show decreases.

Statistical Summary of Growth by Utilities

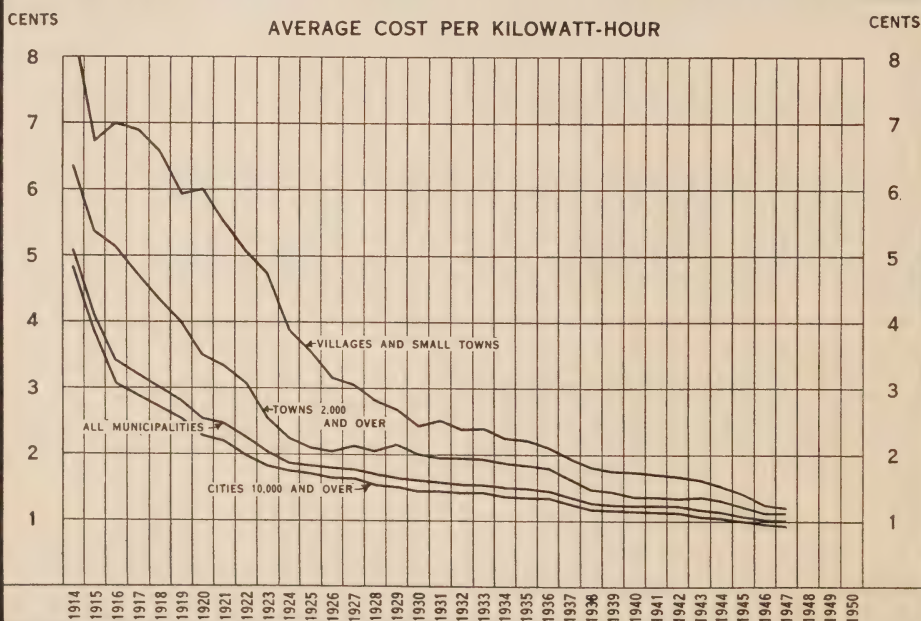
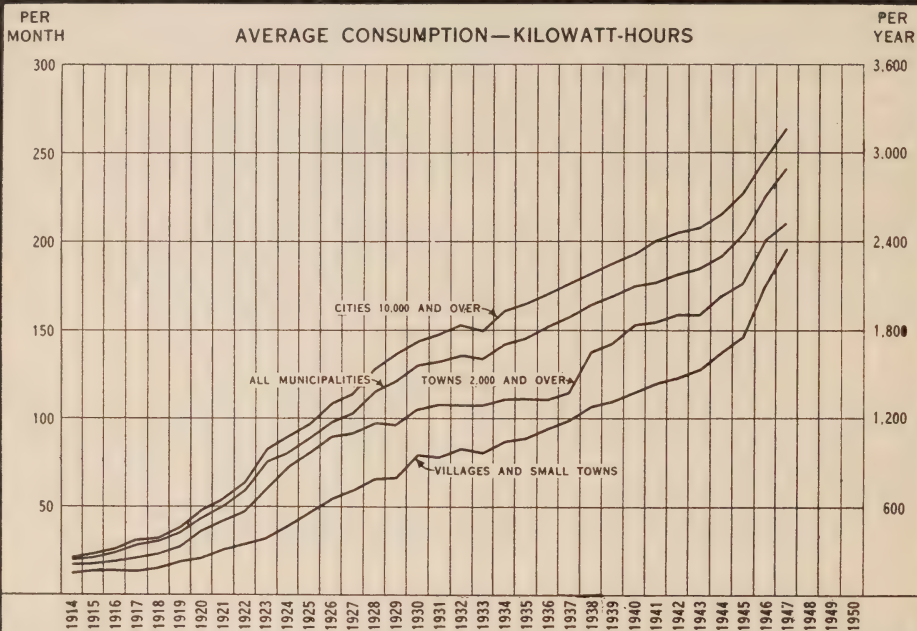
The annual growths in revenue and kilowatt-hour consumption, also the reduction in the average cost per kilowatt-hour from 1914 to 1947 for all domestic and commercial consumers, are shown in the accompanying tables and graphs. The figures include all the municipal utilities listed in Statement "D" of Section X of this Report and also those municipal utilities owned and operated by The Hydro-Electric Power Commission of Ontario.

The tables give complete information for "all municipal utilities combined" for both domestic and commercial services; the graphs show only increased use and decreased cost for domestic and commercial services but give these data for cities, towns and villages as well as for "all municipalities combined."

It should be noted that the tables indicate the amount charged to consumers on their regular accounts and these figures do not include the further benefit that a large number of consumers obtain in the form of cash refunds from time to time.

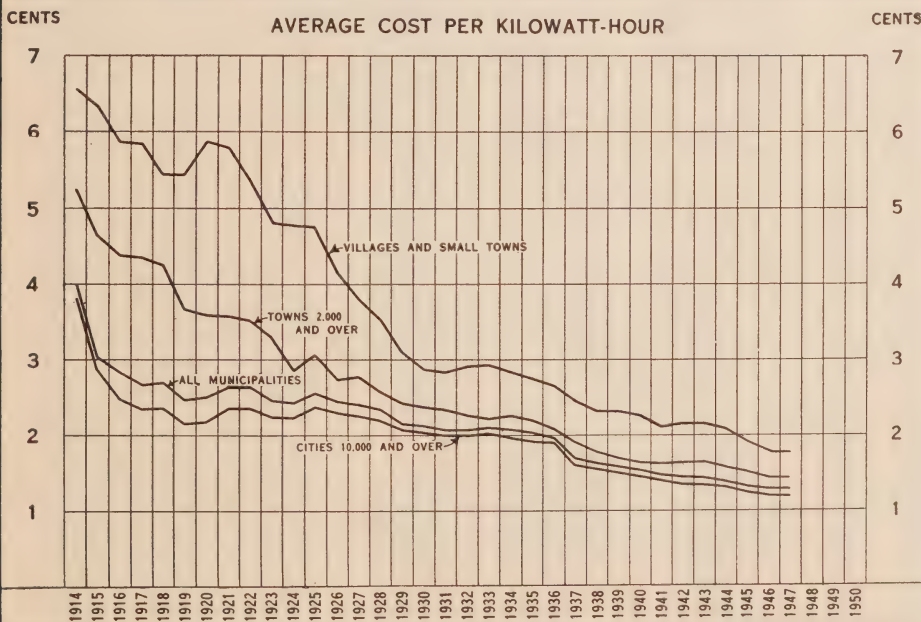
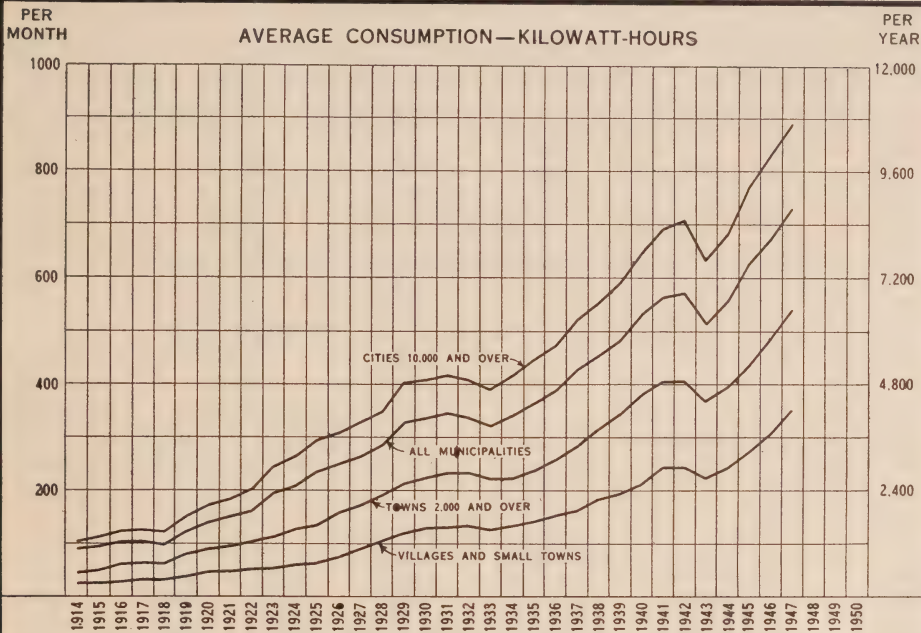
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

DOMESTIC SERVICE



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

COMMERCIAL LIGHT SERVICE



It should also be noted that the reduction in average cost per kilowatt-hour shown in the accompanying tables is only in part due to reductions in rates or prices to consumers. Credit for the reduction in average cost for the period up to 1947 belongs to the form of rate schedules which were designed to give consumers the benefit of the lower overall costs of providing additional energy from distribution facilities already established. The present expansion of the Commission's capital construction program, to provide increased generating capacity, will bring about larger fixed charges on generating and transmission facilities without a corresponding growth in revenue-producing load.

GROWTH IN HYDRO DOMESTIC SERVICE 1914 TO 1947

ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		\$			cents	\$ c.	kw-hrs
1913				49,200			
1914	49	730,168	14,359,100	64,866	5.08	1.06	21
1915	.....	854,748	20,935,000	85,865	4.08	0.92	22
1916	.....	992,628	29,359,900	108,364	3.42	0.82	24
1917	123	1,340,855	41,930,200	131,313	3.20	0.91	29
1918	.....	1,583,677	52,731,700	146,885	3.00	0.92	31
1919	.....	1,933,577	68,409,100	169,455	2.82	1.01	35
1920	166	2,514,658	98,211,000	193,892	2.56	1.15	45
1921	.....	3,086,051	124,619,800	219,465	2.48	1.24	50
1922	.....	3,761,172	166,182,000	245,577	2.26	1.34	59
1923	206	4,955,420	242,926,600	286,852	2.04	1.54	76
1924	.....	5,548,835	292,608,400	303,787	1.89	1.56	80
1925	.....	6,414,134	342,356,700	326,307	1.85	1.67	90
1926	242	7,353,394	404,722,959	349,882	1.81	1.79	98
1927	267	8,497,190	469,851,690	387,573	1.80	1.87	103
1928	268	9,411,812	551,010,035	408,071	1.71	1.97	115
1929	273	10,256,860	612,141,722	424,419	1.67	2.05	122
1930	273	10,752,720	671,028,310	433,260	1.61	2.09	130
1931	289	11,226,091	704,784,457	447,466	1.59	2.12	133
1932	298	11,676,222	740,900,418	452,615	1.57	2.15	136
1933	300	11,639,178	742,195,402	460,878	1.57	2.10	134
1934	300	12,078,069	797,532,709	463,913	1.51	2.17	143
1935	302	12,393,536	826,972,873	471,265	1.50	2.19	146
1936	302	12,922,466	881,972,324	482,557	1.47	2.23	152
1937	305	12,680,921	926,350,703	490,140	1.37	2.16	157
1938	312	12,880,180	1,003,489,453	507,132	1.28	2.12	165
1939	317	13,300,898	1,056,310,109	518,123	1.26	2.14	170
1940	317	13,905,290	1,115,888,837	531,514	1.25	2.18	175
1941	320	14,452,796	1,169,273,964	546,613	1.24	2.20	178
1942	323	15,022,931	1,224,195,712	559,605	1.23	2.24	182
1943	323	15,069,547	1,266,930,625	570,470	1.19	2.20	185
1944	323	15,528,445	1,348,099,019	579,890	1.15	2.23	194
1945	340	16,053,818	1,494,258,124	608,905	1.07	2.20	205
1946	339	17,526,854	1,704,125,246	628,118	1.03	2.32	226
1947	339	18,937,674	1,870,974,898	648,282	1.01	2.43	240

GROWTH IN HYDRO COMMERCIAL LIGHT SERVICE
1914 TO 1947—ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		\$			cents	\$ c.	kw-hrs
1913				13,113			
1914	43	624,781	15,669,700	15,657	4.00	3.63	91
1915		649,585	21,444,900	19,324	3.03	2.95	97
1916		753,784	26,866,000	22,216	2.82	2.87	102
1917	123	860,475	31,983,500	27,453	2.69	2.77	103
1918		947,769	35,053,500	29,570	2.70	2.70	99
1919		1,158,406	47,087,000	33,307	2.46	3.03	123
1920	166	1,477,963	59,336,900	36,496	2.50	3.51	140
1921		1,818,211	68,863,500	39,333	2.64	3.98	151
1922		2,143,981	81,216,000	43,098	2.64	4.26	162
1923	206	2,613,257	105,482,600	46,383	2.46	4.80	196
1924		2,907,427	120,474,800	50,137	2.41	4.99	207
1925		3,836,946	151,555,200	56,018	2.54	5.98	235
1926	242	4,176,595	171,797,014	58,444	2.43	6.08	250
1927	267	4,823,781	200,606,137	64,039	2.40	6.39	267
1928	268	5,436,795	234,526,831	68,013	2.32	6.66	287
1929	273	5,893,217	272,343,330	70,106	2.16	7.11	329
1930	273	6,094,871	287,838,022	71,873	2.11	7.15	338
1931	289	6,377,520	305,121,640	75,286	2.09	7.20	344
1932	298	6,402,882	306,596,543	75,705	2.09	7.05	338
1933	300	6,149,792	292,335,489	75,443	2.10	6.79	323
1934	300	6,344,921	306,632,722	75,016	2.07	7.05	341
1935	302	6,601,461	327,413,421	74,884	2.02	7.35	364
1936	302	7,001,893	355,235,553	75,878	1.97	7.69	390
1937	305	6,676,968	393,067,119	76,620	1.70	7.26	428
1938	312	6,909,454	427,020,841	78,021	1.62	7.38	456
1939	317	7,256,262	459,635,100	78,949	1.58	7.66	485
1940	317	7,785,024	508,986,422	79,512	1.53	8.16	533
1941	320	7,991,091	540,995,581	79,824	1.48	8.34	565
1942	323	7,695,928	531,680,336	77,326	1.45	8.29	573
1943	323	6,787,241	472,129,977	76,194	1.44	7.42	516
1944	323	7,298,848	524,905,356	78,256	1.39	7.77	559
1945	340	8,429,573	634,878,480	84,413	1.33	8.32	627
1946	339	9,364,009	725,475,237	89,109	1.29	8.76	679
1947	339	10,277,574	797,642,711	91,926	1.29	9.32	723

REGIONAL ORGANIZATION

One of the results of the reorganization of the Commission in 1947 was the division of the Province into nine regions, each staffed with representatives of the main branches of the Head Office organization and headed by a regional manager, who within his region is responsible for the day-to-day activities and policies of the Commission excluding engineering and construction projects. This decentralized type of administration has already proved successful, and beneficial both to the Commission and to the consumer.

The regional offices were set up late in December 1947 and operated during the initial organizing period from Toronto. With the exception of the Eastern region all staffs have been operating from their regional locations since the summer of 1948.

It may be helpful to an understanding of the regional-office organization if it is appreciated that in a large region the manager's engineering advisers,

the regional operations engineer and the consumer service engineer have superintendents responsible to each of them for various activities. These are: station maintenance, line maintenance, meters and relays, forestry operations, consumer service and electrical inspection. For the purpose of the Commission's Annual Report certain of these matters are of common interest and procedure and can be summarized and reported upon as a phase of the Commission's operations. For example, the operation of the systems, the administration of rural service and financial statements of Hydro utilities, which reflect the policy of Commission control of rates to consumers, are conveniently summarized as hitherto in other sections of the Report.

This section is chiefly concerned with an account of how the Commission, through the regions, administers the undertaking for the benefit of the consumers.

In the following pages particulars are given for each region of its establishment, boundaries and general economy. Certain individual features of the region's work are noted and a brief summary is given of the municipal activities.

For convenience a geographical sequence has been adopted for listing the regions, starting in the southwest, working to the east through southern Ontario and returning west through northern Ontario as follows: Western, West Central, Niagara, Toronto, Georgian Bay, East Central, Eastern, Northeastern, Northwestern.

REPORTS FROM THE REGIONS

WESTERN REGION

Establishment

The Western region, responsible for providing electric service to the 560,000 residents of 5,500 square miles of southwestern Ontario, was first organized during December 1947. On June 28, 1948 the Regional staff moved from Toronto to permanent quarters in London and on that day opened its offices.

Boundaries of Region

The terrain serviced by, and comprising for Hydro purposes the Western region, is that active and thriving industrial and agricultural section of the Province bounded by the waters of lakes Erie, St. Clair and Huron and the Detroit and St. Clair rivers from Port Burwell on lake Erie to a point north of the village of Grand Bend on lake Huron opposite Hensall and Zurich. Here the boundary turns inland, eastward and southward, and includes in the region the counties of Essex, Kent, Elgin, Lambton, Middlesex, Oxford and part of Norfolk.

The 73 municipal systems within the region serve 117,979 consumers with distribution systems and plant equipment worth about \$20 million.



WESTERN REGIONAL OFFICE—LONDON

In addition, in rural operating areas, service is supplied to 25,673 farm and 28,701 other consumers, requiring 6,300 miles of primary line and 25,050 rural transformer installations, representing a total investment of nearly \$5½ million.

When fully organized the region will have 25 operating areas strategically situated with trained staffs expert in every phase of the work. Supplementary training is being given to all the line staff. During 1948 eighteen senior linemen received such training.

Type of Economy

The diversified agricultural activities in the region range from the highly concentrated dairying activities in Oxford, Middlesex and Elgin to the fruit and vegetable farming in Essex and Kent and the mixed farming and stock farming of Lambton county. Along lake Erie from St. Thomas, through Dutton, West Lorne, Rodney, Ridgetown and Blenheim the bean crop is of importance. Marsh farming is concentrated near Thedford and in the lake St. Clair area.

Much of the fruit and vegetables is processed locally in the canneries which are widespread throughout the region. Dairy products are processed and matured in numerous small factories and plants in the region and at the cheese centre of Ingersoll. Flour milling and cereal making are carried out in London and many other smaller centres.

Tobacco is the principal crop in many sections along the shores of lake Erie from east to west and extends inland for a good distance. The crop is processed in Tillsonburg, Aylmer, Leamington and Kingsville.

Sugar beets are an important crop in Kent county, centring on Chatham and Wallaceburg and are processed in these centres.

Fishing is a thriving and profitable industry along the lake Erie shoreline from Port Burwell, west through Port Stanley, Rondeau, Eriean, Port Crew, Wheatley and Kingsville, where a Government fish hatchery for lake fish is located. The fishery products are iced locally and mostly shipped by fast express to the large United States centres.

The region's forestry products, together with imported logs, are processed in many plants, large and small, from Woodstock westward through West Lorne, Rodney, Hensall, Zurich, Forest, Thedford and Strathroy, where an important furniture factory is located.

Industry

Industry within the region is well spread and diversified.

Windsor is the centre of the automotive industry, which is also located in Chatham and Tilbury. Certain automotive parts are manufactured at other places, including Point Edward, Ridgetown, St. Thomas and Ingersoll.

Sarnia, the petroleum centre of the Province, has also a young but thriving chemical industry. The supply of raw materials is drawn from Windsor and Amherstburg and high quality limestone quarries at Beachville.

The oil fields at Petrolia, Oil Springs and Bothwell depend on Hydro power for pumping oil.

London, the financial centre of a wealthy territory, has diversified industries ranging from steel products to food processing plants.

St. Thomas is an important railroad centre and includes foundries and railroad shops amongst its industries.

Chatham, besides its processing of agricultural products and automotive engineering, has a large farm-machinery plant.

Woodstock includes amongst its industries the manufacture and assembly of farm machinery and truck bodies, an extensive textile industry, a large metallic-tubing plant and a wood-working industry.

Wallaceburg, a highly industrialized Great Lakes port, is the centre of the glass industry, but also has important die-casting and light industrial plants.

Other industries within the region include the largest steel-wool plant in the Empire at Thamesville, a steel-products plant at Watford, textile plants in Woodstock, London, Parkhill and Glencoe and the shipbuilding industry at Eriean.

The natural-gas industry in the region depends on Hydro power at a number of points, including Port Stanley, Windsor, Port Alma and Glenwood.

Another important factor in the economy of the Western region is the tourist trade. The region lies across the approach to Ontario's Northland and is the shortest route between Detroit and Buffalo, so that the port of Windsor has the highest count of entering visitors in the Dominion. In addition, important summer colonies follow the lake and river shores from southeast around to the northwest at Grand Bend.

To bring adequate and essential Hydro service to these industries and to the hundreds of thousands of homes of the individuals who man them, the region receives power from the east and northeast boundaries. In addition, on November 1, 1948, the region received the first steam-generated, 60-cycle power from the Polymer plant at Sarnia, partly for use by industry there, the balance to be converted to 25-cycle at the Westminster frequency-changer and transformer station near London for the Southern Ontario system.

Western Region—Municipal Activities

Ailsa Craig—Work on rehabilitation of the distribution system is proceeding.

Aylmer—Transformer capacity was added to provide for the increased load of power consumers.

Beachville—The power bank supplying Wm. Neilson Ltd., was enlarged.

Chatham—A 3,000-kva municipal station on Richmond street was placed in service and work was continued on the underground primary feeders in the western industrial section.

Work was begun on a third 26.4-kv overhead feeder from Kent transformer station to tie into the municipal transmission network. A new garage building was commenced.

Dresden—Alterations were completed in the distribution system to tie in with the new distributing station.

Embro—Transformer capacity was added to provide lighting for the baseball diamond.

Exeter—Two new power banks were erected to supply the Rutabaga Company, vegetable processors, and Jenson and Company, a woodworking shop.

Forest—The distribution system in the business section was moved from the street to the alleys.

Glencoe—The installation of a modern street-lighting system in the main business section was completed, and all poles and services were removed from the main street. Services are now supplied from the back of the lots. The section west of Main street is in joint use with the Bell Telephone Company. A new power bank was erected at Victoria street and McRae street.

Hensall—Work was commenced on a modern street-lighting system for the main business block. Primary lines were extended and a new power bank was erected to supply the new waterworks pump.

Highgate—The distribution system in the business section was moved to the rear of the buildings.

Ingersoll—Preliminary arrangements were made for the construction of a second distributing station to serve the west end of the system.

London—Considerable rebuilding was undertaken on the downtown underground network and one new network transformer was installed. An

underground feeder was completed from the site of the proposed Nelson transformer station to the Carling street station. Some work was done in laying supervisory control cables between substations. Modernization of substation equipment proceeded with the installation of some modern and higher capacity oil breakers. An underground distribution system within a housing project of 200 homes was completed, using polyethylene cable for primary and P.V.C. cable for secondary.

Lucan—Service was supplied to two housing developments, a section on William street was rebuilt for joint use with the Bell Telephone Company. Primary line was extended and transformer erected to supply Wein's Hatchery.

Oil Springs—A municipal water works system was added as a new power customer.

Otterville—Work was started on a pumphouse and storeroom for use by water and electric departments.

Parkhill—A new feeder was built to tie in the new distribution station with the Parkhill system. The modern street-lighting system on Main street was completed.

Petrolia—Extensive rebuilding and rerouting of the distribution system was undertaken to accommodate the new distributing station installed during the year.

Point Edward—The Holmes Foundry and Canadian Auto-Lite Co. gave notice of plans for extensive additions which will require an additional 1,200 horsepower.

Port Stanley—Extensive increases in the distribution system were made to supply power to the new plant of the Dominion Natural Gas Co.

Riverside—A flat-rate water-heater control system was installed for 300 heaters.

St. Thomas—The cost of extensions to the Hydro system total \$56,000 and include: Placing underground 5,600 feet of 13.2-kv, 250-m.c.m. cable from St. Thomas transformer station to tie into the city system, paralleled with which was a signal cable to operate pilot wire relays; the completion of the 2,000-kva, No. 4 municipal station on Metcalf street, and the installation of a new 450-kva municipal station in the northeast industrial section. Primary and secondary extensions were made to serve three housing subdivisions with a total of 160 homes. Conduits were installed in the new Wilson avenue bridge and the lighting of this bridge was completed.

Sarnia—A new 2,000-kva substation was completed and placed in service. A new 450-kva municipal station was installed for a brass foundry. The underground network in the business section was completed. Distribution system extensions and enlargements were undertaken for new housing including one Government housing scheme of 197 homes.

Strathroy—Service was supplied to a new modern twelve-room school and to a number of new homes.

Thorndale—Work was started on the rehabilitation of the distribution system and the section south of Main street was completed.

Tillsonburg—Preliminary arrangements were made for the construction of a second municipal substation.

Wallaceburg—Progress was made in the construction of the new municipal substation. Distribution system rebuilding was undertaken on account of this new station and increased load.

Watford—A new customer-owned substation was installed at the Andrews Wire Works.

West Lorne—Construction proceeded on the new office, storeroom and garage building.

Windsor—Underground ducts and manholes were installed extending two miles in length. In the services, domestic, power and commercial, a total of 690 consumers were added. Twenty seven oil circuit-breakers, 4,000 volts with a rupturing capacity of 250,000 kva were purchased and partially installed replacing low capacity oil circuit-breakers. Old air-insulated ground transformers at 26.4 kv were replaced with new oil-insulated porcelain clad transformers. Hook-stick operated disconnects were replaced with high rupturing capacity gas-operated disconnects.

Woodstock—Municipal station No. 5 consisting of three 150 kva transformers was installed to serve a residential area including a large Government housing scheme. A 750 kva municipal station was installed to serve a large woodworking industry. Distribution system and station equipment were enlarged and modernized. The street-lighting system on Dundas street was modernized.

WEST CENTRAL REGION

Establishment

The nucleus of the staff of the West Central region was formed at Head Office, Toronto, on December 22, 1947. On July 12, 1948 the regional office was set up in the Terminal Building, Hamilton, but owing to initial lack of space, certain divisions were housed elsewhere until October 12.

Boundaries of Region

The region extends from the shore line of lake Erie between Dunnville and Port Burwell on the south through the midwestern section of southern Ontario to lake Huron. It embodies 59 Hydro municipalities and 13 rural operating areas which, at the end of the year, had a total of 133,535 urban and 40,099 rural consumers, respectively. Seventeen commercial power consumers are supplied directly by the Commission.

Type of Economy

This section of Ontario is marked for its high intensity of industry. The larger centres, as well as the small municipalities, have a well-balanced diversification of factories and manufacturing plants. In the city of Hamilton, there are three large steel-producing plants which made a large contribution towards Canada's war effort. Other heavy industries, and many lighter ones, make Hamilton the industrial centre of this region. Water transportation is provided direct to the industries on the bay front, as the land-locked Burling-

ton bay provides an excellent harbour. While the greater part of the electrical load in Hamilton is at 25 cycles, there is still some 40,000 horsepower supplied at 66 $\frac{2}{3}$ cycles, which is the major portion of the former Dominion Power and Transmission Company systems supplied from DeCew Falls near St. Catharines.

The textile industries of Galt, Preston and Hespeler use a large amount of electrical power. In Kitchener, there are furniture factories and meat-packing plants. Stratford is a divisional headquarters of the Canadian National Railways, with one of the largest locomotive and tender repair shops in Canada. Brantford and Guelph have a number of textile and metal-working plants and in the former town there is particular emphasis on the manufacture of agricultural machinery. Port Dover is one of the centres of the extensive lake Erie commercial fishing industry, with its associated cold storage and fish processing plants. Goderich has excellent harbour facilities with a 5-million bushel grain elevator and a large flour mill.

The thirteen offices serve a fertile and productive agricultural region, given over in the northern section to mixed farming and in the Port Dover and Port Rowan areas to both mixed farming and tobacco growing. The density of rural consumers is highest around Hamilton, Dundas, Burlington, Waterdown and Kitchener.

In carrying out the Commission's policy of maintaining a high standard in the general appearance of all its properties, an attempt was made to improve the lawn areas at the various transformer stations, which had deteriorated to some extent during the war years, but these efforts achieved only moderate success because of an extended dry period during the summer.

West Central Region—Municipal Activities

Ancaster Township—Following the annexation by the city of Hamilton of a portion of Ancaster township, that part of the distribution system serving the area annexed was sold by the township Hydro-Electric System to the city Hydro-Electric Commission.

Brantford—A new 1,500-kva transformer was installed at Clarence Street substation, together with one new 4,000-volt oil switch. All of the other feeders were re-built with increased carrying capacity.

A 1,500-kva water-cooled transformer was purchased and installed at Greenwich Street substation. A piece of property in West Brantford was purchased as a site for a projected substation.

The distribution system was extended in order to supply 100 houses in a Government-sponsored housing project.

Brantford Township—The suburban area adjacent to Brantford is building up so rapidly that the Brantford Township Hydro-Electric Commission secured approval to issue debentures for \$130,000 to provide additional distribution facilities.

Bridgeport—A portion of the distribution system was rebuilt to serve new homes.

Burlington—At a cost of approximately \$2,000, the distribution system was extended to supply a recently annexed area of Nelson township.

Caledonia—Steps were taken to serve the pumping plant of the new water-works system. Systematic strengthening of the distribution system was made.

Delhi—Unprecedented growth made necessary a considerable extension of the distribution system. Three-phase power service was extended to the pumping plant of the new water-works.

Galt—A fire-proof garage and stores building was completed, embodying the latest facilities for the efficient handling of line materials and trucks.

The street-lighting program was continued from last year by the installation of 134 modern street-lighting luminaires at a cost of approximately \$13,500.

Service was supplied to some 300 new residences, one-half of which were under Government housing schemes.

Goderich—A building was purchased and renovation was commenced in order to provide improved office, stores and garage facilities.

Guelph—A cottage-type substation with a 1,500-kva transformer was constructed in St. George's ward.

Service was supplied to 357 domestic, 7 commercial, and 13 industrial new consumers. About 200 flat-rate water heaters and 291 additional street lights were installed. The additional connected load required the rebuilding of a number of sections of the distribution system with increased conductor capacity.

Plans were prepared for an additional substation in the central section of the city, to consist of one 1,500-kva and one 750-kva transformer. It will serve both domestic and industrial consumers.

Hagersville—Steps were taken to provide power service to new pumping and sewage disposal plants.

Hamilton—Ferrie street and Sherman avenue substations were built and permanently completed, each with a capacity of 6,000 kva. The Mountain substation on Wentworth street south and Parkdale avenue substation in the east end, were connected temporarily. The former has a capacity of 6,000 kva and the latter 3,400 kva.

On Wentworth street, south from King street, 24,279 duct feet and six manholes were installed along with necessary cable at a total cost of \$37,957. In the east end, on Birch avenue, Barton street and Sherman avenue, a total of 40,592 duct feet with eight manholes were laid with no cable installed, at a cost of \$46,863.

A pole line was completed from the Mountain brow to the new substation on Wentworth street south, at a total cost of \$19,314. An increase of 5,810 kilowatts in line transformers were erected at a total cost of \$84,029. The increased capital in meters was \$57,039.

A small portion of Ancaster township, including 92 customers and 33 water heaters, was annexed to the city system. The purchase price of the Hydro equipment was \$3,825.

Hespeler—No. 2 substation was enlarged by the installation of a 2,000-kva transformer, replacing a 1,500-kva unit, which was moved to No. 1 substation to give increased capacity.

Kitchener—The program of converting the series street-lighting system to multiple was continued, as well as the rebuilding of primary and secondary circuits. On King street 110 modern street-lighting luminaires were installed on existing poles at a cost of approximately \$6,000.

Additions were made to the distribution system in two Government-sponsored housing areas, one at the north and the other at the south of the city, containing a total of 220 houses.

Substation No. 6 was placed in service with a 3,000-kva transformer at a cost of approximately \$50,000. The major part of construction was done on substation No. 7 of similar size with a cottage-type control room. In both of these substations carrier current transmitters were installed with two frequencies, one of which will be used for water-heater control and the other for street-lighting control when the control installations have been made. About 6,000 control relays were installed.

In Hall's lane at the rear of the business section of high load density, transformer vaults and secondary ducts were installed as a beginning of an underground distribution system in the business section at a cost of approximately \$35,000.

Lynden—Plans were made to rebuild a part of the distribution system, using poles jointly with the Bell Telephone Company and Dundas rural operating area.

Paris—The distribution system was extended to serve 50 new Wartime Housing consumers and planned rehabilitation of the system was carried out. A pilot wire water-heater control was installed, also a new bank of 25-kva power transformers to serve Penman's No. 1 Mill formerly served by water-power.

Plattsville—Single-phase service was extended to the ice Arena with a total lighting load of approximately 22 kilowatts.

Port Rowan—Plans were made to change the distribution system from 4,000 to 8,000 volts. A new central 550-volt power bank was erected.

St. George—Changes were made in the distribution system in order to receive service from a newly erected distribution station west of the village. Rebuilding of the distribution system is under way.

Simcoe—The distribution system in the recently annexed Gibson and Osborne surveys was purchased and extended. Plans were made to erect a second substation to serve the north end of the town. The new arena was given 3-phase power for artificial ice purposes.

Stoney Creek—The local distribution system was purchased by the village from The Hydro-Electric Power Commission and \$40,000 of debentures were issued to cover the purchase price and extensions. Administration is by a Committee of Council and operation by the Commission staff of Saltfleet rural operating area.

Stratford—The 4,000-volt lighting primary was extended to provide service to a flood-lit hard-ball park.

An addition to the distribution system was necessary in order to serve a Government-sponsored housing scheme involving 108 homes.

Waterloo—To supply rapidly building-up areas, extensions to the local distribution system were made. This required the attention of the staff for the greater part of the year.

NIAGARA REGION

Establishment

The regional office was opened on January 1, 1948, in the Administration building of the former Ontario Power Company, which is situated on the escarpment overlooking the falls. Previously this accommodation was occupied by the Niagara district operating office.

Boundaries of Region

The Niagara region comprises that portion of the Niagara peninsula east of a line extending from about Dunnville on lake Erie in the south to Grimsby Beach on lake Ontario in the north.

The region includes 17 municipalities and three rural operating areas.

Type of Economy

In the comparatively small area of this region are situated the largest generating station constructed by the Commission, that at Queenston, the generating stations of the former Ontario Power Company and Toronto Power Company at the falls and of the Dominion Power and Transmission Company at DeCew Falls and the new 25-cycle plant at DeCew Falls. The capacity of these plants is well over half of the Commission's total generating capacity. With this concentration of electrical power it is understandable that the region has many large industries which have been established because low-cost power in large quantities was available.

Among the many industries are those manufacturing chemicals and fertilizers, abrasives, silverware, cranes and hoists, porcelain insulators and cellucotton paper products.

Niagara Region—Municipal Activities

Dunnville—To relieve the overload on the municipal station, arrangements were completed to operate this station in parallel with the Commission's adjoining distributing station.

Humberstone—A building purchased by the local commission was completely renovated and is now occupied as office and store room for the electric utility.

Merritton—A site was purchased for the erection of an office and store room.

Niagara Falls—Underground distribution was placed in service in a newly opened subdivision.

Thorold—A new 1,875-kva, municipally-owned station was placed in service. A duplicate station is under construction and will be placed in service in 1949.

TORONTO REGION

Establishment of Region

Toronto region was established in temporary offices on December 22, 1947. Customers served include 31 municipal Hydro systems, five large industrial consumers directly served by the Commission and consumers in five rural operating areas.

Boundaries of Region

The Toronto region serves the metropolitan area of Toronto, including many important suburban communities. Its westerly boundary commences at a point two miles southwest of Bronte and takes in a large part of Halton county, including the Campbellville, Milton and Georgetown areas. The boundary crosses the northern section of Peel county to the northwest limit of York county and follows the northern boundary of York county, Holland Marsh and the south shore of lake Simcoe to a point three miles east of Sutton. From this point it runs in a southerly direction to a point on lake Ontario, approximately three miles east of Dunbarton.

Type of Economy

Although relatively small in area, this is a most important region. The total amount of power used by the region aggregates about 470,000 kilowatts, or some 30 per cent of the total Commission load. The region serves about 42 per cent of the Commission's consumers of all classes.

Within the region there are a vast number of manufacturing industries and much of the work of the region technical staff is concerned with industrial problems. The services rendered to both municipalities and industrial power consumers include routine inspection and maintenance of substations.

The conservation of power during the time of shortage was an important feature of the work of the regional office during 1948.

The work of the forestry section was concerned with more satisfactory tree clearances and the control of weeds and brush on rights-of-way.

Close liaison was maintained with the Toronto Industrial Commission, in order to answer enquiries as to power-supply facilities from a number of industrial firms wishing to establish plants either in the city of Toronto or in the metropolitan area.

Toronto Region—Municipal Activities

Agincourt—A modern luminaire street-lighting system was installed for the full length of the main street. The distribution system was extended to supply a new housing development.

Aurora—A number of modern luminaire units were installed on the main street. A 600-kva, 26,400/575-volt substation was installed for a large power consumer, and one new 150-horsepower consumer was added to the system.

Bolton—Approval was given for the purchase of a lot to be used as a pole yard and of a site for the building of a storehouse.

Brampton—A dual-frequency transformer, capacity 2,000 kva at 25 cycles or 3,600 kva at 60 cycles, was installed at the present substation to supply additional load. It will be moved to another site in the town when frequency-conversion is completed.

East York Township—A new industrial area is being established and a 3,600-kva, 60-cycle substation will be placed in service early in 1949.

A temporary 2,000-kva substation to serve the western section of the township was put in service, on behalf of the municipality.

Etobicoke Township—Two new 1,875-kva substations were installed in the Lambton and Hollywood areas. Approximately 1,000 radial wave street-lighting fixtures were changed to modern luminaires. Approval was given to issue debentures for \$200,000 to build additional distribution facilities.

Forest Hill—Approval was given for the construction of a 3,000-kva substation in the southern section of the municipality; this will provide power for additional loads and give greater security of service.

Georgetown—The distribution system was extended to provide 200 new services in a war-time housing area.

Milton—Construction was started on a dual-frequency substation, capacity 2,000 kva at 25 cycles or 3,000 kva at 60 cycles. Due to delays in the receipt of certain materials, this station will not be completed until later in 1949.

Mimico—A new 1,875-kva substation was built in the industrial section and will be in service early in 1949. Construction of a new office building was commenced. The building will be ready for use in the summer of 1949.

Newmarket—The distribution system was extended to supply service to two new housing areas, and plans were made for rehabilitation of the street lighting system to be carried out over the next two years.

New Toronto—A new 26,400/575-volt substation was installed by a large industrial firm enlarging its manufacturing plant.

North York Township—A modern luminaire street-lighting installation was completed on Yonge street and on a section of Avenue road. In 1948 2,500 new consumers were added to the system. Approval was given to issue debentures for \$250,000 to build additional distribution facilities and a new substation.

Oakville—The town in December 1948 voted to become a cost-contract customer of the Commission.

Scarborough Township—The Voted Area was enlarged to take in approximately 240 services which had been supplied as part of a rural area in the eastern part of the township. A new 1,875-kva substation was installed to supply additional load in the Birchmount area.

Information was supplied and negotiations entered into on behalf of Scarborough township for the provision of a 60-cycle supply to a large industrial consumer, who is making an extensive addition to his plant and requires 60-cycle supply before the present frequency standardization work is completed.

Toronto Township—Approval was given for an expenditure of \$25,000 to erect a garage and stores building. A new 2,000-kva substation was placed in service in the Dixie area, and the Clarkson substation was increased to 2,000-kva to supply additional domestic load and the new CFRB broadcasting

station. The Cooksville Brick Company, formerly supplied as a direct customer of The Hydro-Electric Power Commission of Ontario, was taken over by the township system.

Trafalgar Township—The new office and stores building was completed and is now occupied.

Weston—Owing to widening of the main street, the town has had to remove the wood-pole line and install steel poles for the trolley-bus circuit. Advice was given on this work and also on the plans to replace the present street-lighting system by modern luminaire units.

Woodbridge—Two new 26,400/575-volt substations were installed to supply a large power consumer.

York Township—A new 3,750-kva unit-type substation was installed, and two new 26,400/575-volt substations were completed.

Information was supplied on the type of equipment needed to provide radio communication channels for use in relay protection for a number of substations of the municipality and to provide also for inter-communication between its trucks and office.

GEORGIAN BAY REGION

Establishment

The Georgian Bay Regional staff was established in Toronto in December 1947 and the organization had progressed to such a position that it was possible to move to the field on July 16, 1948. The regional office is in the Barrie Municipal Building, at 84 Collier Street, Barrie.

Boundaries of Region

The region comprises 66 municipalities, 9 system customers and 16 rural operating areas in the territory which surrounds the southern end of Georgian Bay and lies to the north of the territory served by the Niagara division. It extends as far north as Parry Sound and Burks Falls, and south to Port Perry, Orangeville and Wingham.

Type of Economy

The region is one of the greatest tourist resort areas of southern Ontario, embracing as it does the summer communities and homes on the southeast shore of lake Huron, Georgian bay, the Thirty-thousand islands, Lake of Bays, Muskoka lakes and the larger portion of lake Simcoe. Its shoreline includes the terminals of important freight routes for the western grain trade. The southern portion of the region supports both mixed and dairy farming, while manufacturing industries centred in the larger towns help to balance the economy.

A heavy rural construction program in the region made it difficult to carry out thorough maintenance on transmission lines during the year and only very essential work could be performed. Many of the sixteen rural areas in the Georgian Bay region were later in developing than in some other parts of the Southern Ontario system, but rapid strides are now being made as will be shown in the statistics.



GEORGIAN BAY REGIONAL OFFICE—BARRIE

Georgian Bay Region—Municipal Activities

Alliston—Plans were made for increasing the capacity of the substation from 600 to 1,000 kva.

Arthur—A new 300-kva substation was put in service.

Bradford—Two new large power loads were connected. Preliminary surveys were made for the rehabilitation of the distribution system.

Camp Borden—A survey was made of the Camp's distribution system so that provision could be made to supply the married men's quarters.

Cannington—The distribution station was increased from 450- to 1,000-kva capacity.

Chesley—The primary distribution system was extended to supply a new housing project at the south end of the town.

Coldwater—Distribution poles are being removed from the business section and new street-lighting standards are being installed.

Collingwood—New street-lighting standards with modern luminaires were installed in the business section of the town.

Cookstown—Rehabilitation of the distribution system now in progress is expected to be completed in 1949.

Elmvale—Fourteen new street-lighting standards were put in service in the business section and a primary line was purchased and rebuilt to serve a new power consumer.

Hepworth—A substation supplying Hepworth and adjacent rural area was increased from 300- to 600-kva capacity.

Huntsville—A second three-phase primary feeder was strung from the substation to supply the northwest section of the distribution system.

MacTier—The change-over of the distribution system to 12,000 6,900 volts has been completed.

Midland—A new 750-kva municipally-owned distribution station was put in service to take care of the increasing load.

Owen Sound—A new 15,000 kva, 115,000/44,000-volt transformer station with regulating transformers was put in service at the eastern limits of the city. This new station releases two 1,700-kva synchronous condensers previously required for voltage regulating purposes.

Port Carling—The local substation was increased in capacity from 300 to 600 kva.

Port Elgin—The distribution system was changed from 2,300-volt delta to 4,000-volt star.

Port McNicoll—The distribution system was changed from 2,300-volt delta to 4,000-volt star. The feeder circuit from the substation was rerouted and rebuilt.

Priceville—Plans were completed for the rebuilding of the local distribution system.

Thornton—The distribution system was changed from 2,300 to 8,000/4,600 volts and the town is now supplied from Painswick distribution station, permitting the dismantling of the local station and 1.85 miles of 22,000-volt transmission line.

Warton—The distribution station capacity was increased from 450 to 1,000 kva.

Wingham—A site was selected for a new 2,000-kva distribution station near the load centre of the town.

EAST CENTRAL REGION

Establishment

A regional office was established at Belleville in the premises formerly occupied by the Operating department on Pinnacle street. This office commenced operations in December 1947, and from it the entire day-to-day affairs of the Commission in this region are administered.

Boundaries of Region

The region comprises 33 urban municipalities and 15 rural operating areas, and includes in general that portion of the Province extending along lake Ontario from a point a short distance west of Whitby, east to Gananoque; to the north the region extends to the southern boundary of Algonquin park.

Type of Economy

The southern portion of the region is a rich agricultural area with mixed, fruit and dairy types of farming. It includes Prince Edward county which ranks as one of the largest producers of canned vegetables in Ontario. The northern areas contain some of the most popular tourist resort sections such as the Haliburton highlands, and the lakes, canals and rivers of the Kawartha lakes, upon which waterways the eleven generating plants of the region are situated. The larger cities are important manufacturing centres and include: Peterborough, with its large electrical engineering industry and food processing plants; Oshawa, a great automotive manufacturing city; Kingston, with varied manufacturing plants and Belleville, which is the centre of many well-established industrial activities, including various engineering and food processing plants.

East Central Region—Municipal Activities

Bath—The distribution system was changed from single-phase to three-phase to serve a canning industry.

Belleville—The distribution system was extended to serve areas which were added to the eastern and western limits of the city from the township.

Bobcaygeon—The existing single-phase line supplying Bobcaygeon municipal station from Fenelon Falls was converted to three-phase. In order to assist in power conservation the Bobcaygeon hydraulic generating plant was placed in service to supply one-half of the town.

Bowmanville—New street lights were installed at Bowmanville Beach. Plans were under way for the construction of a new municipal transformer station.

Cobourg—A temporary substation was installed to serve the new Plastics manufacturing division of the Canadian General Electric Company. Plans to change the distribution system from 2,300 volts delta to 4,160 volts star, were considered.

Kingston—Plans were approved for a new substation to serve the north section of the city.

Lindsay—A new circuit to provide service for industrial expansion in the north section of the town was under consideration.

Newcastle—The street-lighting system was extended throughout the southern portion of the village.

Oshawa—Expenditures were approved for the installation of four underground transformer vaults, with transformers and electrical equipment, in connection with the present duct system and for the extension of the duct system.

Peterborough—Extensive additions to the Aylmer Street office building were completed providing more office and storeroom space. Construction began of a new substation in the east end of the city.

Picton—A new substation was completed and put in service.

Port Hope—A 2,000-kva distributing station was installed to serve the growing industrial load in the south part of the town.

EASTERN REGION

Establishment

The Eastern Regional office was established in Toronto in December 1947, and with the exception of a portion of the Operations section, continued to operate from Toronto during 1948 pending the provision of offices in Ottawa. The Operations section was moved to Ottawa at the end of the summer and carried out its functions from various temporary locations. This separation of various sections of the staff made it difficult to administer the affairs of the region to the best advantage.

Boundaries of Region

The region comprises 29 municipalities and nine rural operating areas. It is bounded on the northeast by the Ottawa river, on the south by the St. Lawrence, extending from Gananoque in the west to the Quebec border in the east, and on the west by the eastern boundary of the East Central region.

Type of Economy

The topography of the northern portion of the region, including Renfrew and Lanark counties, is rugged with many fine wooded areas. In the valleys and level stretches the land is fertile and both mixed and dairy farming are carried on. This portion abounds in rivers and lakes and supports an active tourist trade. The southern counties are mostly level stretches or rolling lands, which produce many kinds of grain and hay crops.

The region has many established industries. In Ottawa there are over 200 manufacturing plants and with its abundance of water power and transportation facilities is an attractive location for new industries. In the city of Cornwall in the southern boundary there are lumber and rayon mills, a cotton manufacturing plant and many other industries. In Pembroke, on the Ottawa river, there are large lumbering and wood operations.

This region is rich in developed and potential water-power resources, as it is adjacent to most of the inter-provincial power sites on the Ottawa river now being developed and on the south to the international portions of the St. Lawrence river, with a potential development for Ontario exceeding 1,000,000 horsepower. Within the region itself are the valuable secondary water powers on the Madawaska and Mississippi rivers.

Industrial Customers

In addition to the nine industrial customers already served directly by the Commission, a contract was completed with the Canada Cement Company for the supply of 600 horsepower to its plant near Ottawa. A new agreement was made with the Howard Smith Paper Mills, for the supply of a maximum of 20,000 horsepower, at 44,000 volts to its Cornwall plant. Negotiations were carried on with the Canada Starch Company for the proposed maximum supply of 1,200 horsepower, to its plant at Cardinal.

Eastern Region—Municipal Activities

Arnprior—The installation of eleven new 500-watt street-lighting luminaires, on the main street, was completed.

Brockville—The Public Utilities Commission approved the expenditure needed to construct a new municipal distributing station of 2,000-kva initial capacity.

Cardinal—The plan for rehabilitating the distribution system was approved.

Chesterville—A storeroom and garage were erected. A new primary circuit was constructed to serve the new plant of Nestle's Milk Products.

Newboro—A new distribution system was constructed to serve the municipality with Hydro power on a cost-contract basis.

Ottawa—The Hydro-Electric Commission made arrangements during 1948 for the installation of three 3-phase transformer banks of 3,000-kva each, with associated low-voltage switching equipment in a new building of modern design at Riverdale.

Perth—Plans were prepared for a new switchboard and a new feeder arrangement in the sub-station.

Prescott—The cost of rehabilitating the distribution system was determined.

Russell—A study to determine the cost and work required to rehabilitate the distribution system was made.

Winchester—Estimates were prepared on the cost of improving street lighting on the main streets by replacing existing units with modern 300-watt luminaires.

NORTHEASTERN REGION

Establishment

The Northeastern region entered on the first stage of re-organization in December 1947 with the appointment of the regional manager and the selection of department heads. Temporary headquarters were provided at Toronto.

The regional staff moved into permanent headquarters at North Bay in June 1948. Following this move the benefits of decentralization became increasingly manifest, both in dealing with customers and in expediting operating activities.

Boundaries of Region

The Northeastern region differs from regions in southern Ontario in that it is not bounded by a single continuous boundary line, but is comprised of five districts, all of which are operated by the Commission for the Provincial government as part of the Northern Ontario Properties.

The five districts in the Northeastern region are known as: Abitibi, Timiskaming, Sudbury, Nipissing and Manitoulin. For administrative purposes the region is divided into seven areas, each with offices and local

staffs. These are: North Bay, Sudbury, Manitoulin, New Liskeard, Kirkland Lake, Matheson and Timmins. Abitibi Canyon constitutes an additional division as an operating unit without area status. In addition to the area staffs, regional line and station-maintenance crews have been established at Sudbury, New Liskeard and Timmins.

There are 22 Hydro-owned municipal distribution systems, and three municipalities—North Bay, Sudbury and Capreol—own and operate their own distribution systems. There are also seven rural operating areas associated with the area offices. Not all of the area offices in the Northeastern region have rural operating areas.

Type of Economy

The Northeastern region is predominantly concerned with the activities of the mining and forest industries, but its wealth of rivers and lakes attract many tourists. Power is supplied from 17 generating stations, the largest being Abitibi Canyon with 240,000 horsepower. The region also operates an hydraulic air-compressor plant, which supplies compressed air to 12 mining customers in the vicinity of Cobalt.

Northeastern Region—Municipal Activities

Capreol—Old street lights on the main street were replaced by steel standards and modern luminaires.

Cobalt—The rebuilding of the distribution system of North Cobalt was started.

North Bay—A new 22,000-volt circuit-breaker was installed in Cassels street substation. The water-heater control installation was completed. The series-type of street lighting on Main street was changed to multiple-type.

Sudbury—An additional bank of three 1,667-kva transformers was installed at Katheleen street substation, together with two feeders, switch-board and metering. Two 22,000-volt airbreak switches were installed.

Timmins—A new substation of three 1,667-kva transformers was installed.

NORTHWESTERN REGION

Establishment

The Northwestern regional office was organized in December 1947 at Head Office, Toronto and moved to the regional centre in July 1948, offices being set up in the Port Arthur Public Utilities Commission building on Cumberland street.

Boundaries of Region

The Northwestern region, like the Northeastern region, is not bounded by a single, continuous boundary line, but comprises the areas served by the Thunder Bay system and the Patricia and Rainy River districts of the Northern Ontario Properties.

The Thunder Bay system comprises the cities of Fort William and Port Arthur, Nipigon Township voted area, Red Rock improvement district, Schreiber Township voted area, and Terrace Bay improvement district.

It serves the territorial district of Thunder Bay, north of lake Superior, the Thunder Bay rural operating area, the mining areas of Longlac and the Rainy River district. Two power developments on the Nipigon river and one on the Aguasabon river supply power. A third development on the Nipigon river at Pine Portage is now under construction.

The Patricia district serves the Red Lake and Pickle Lake mining areas and all territory as far east as Sioux Lookout and as far south as Dryden. Three new rural operating areas are being formed. Power is supplied from two developments; one at Rat Rapids on the Albany river and the other at Ear Falls on the English river. An extension to Ear Falls generating station was completed by a fourth unit of 7,500 horsepower in 1948.

The Rainy River district serves the Steep Rock iron mines and adjacent district with power purchased from the Thunder Bay system. The Rainy River rural operating area is served with power purchased from the Ontario-Minnesota Pulp and Paper Company, Limited.

Type of Economy

The region includes nine municipalities and two rural operating areas. The chief cities are Port Arthur and Fort William, which are terminal points for western railway systems. They have many elevators for handling the grain trade. Both cities are making rapid progress in manufacturing and reflect the development of the mineral wealth and the extensive forests of northwestern Ontario.

Northwestern Region—Municipal Activities

Fort William—The city is erecting a 3,000 kva unit-type substation in the westerly section of the city to take care of increased loading at this point.

Port Arthur—The installation of a 3,000-kva unit-type substation on John street was completed and the city is now erecting a second 3,000-kva substation on Algoma street north to take care of increased loads.

Red Rock Improvement District—This is a new cost-contract municipality which commenced operation as such on February 15, 1948. Power is supplied temporarily from the Brompton Pulp & Paper Company, Limited.

Sioux Lookout—A program to improve the distribution system is now well under way.

Terrace Bay Improvement District—Terrace Bay, a new cost-contract municipality commenced operation on January 1, 1948. Contracts were signed and temporary power is supplied through the facilities of the Longlac Pulp & Paper Company, Limited.

Townsites

Atikokan—A new street-lighting system is to be installed in this townsite.

Cottage Cove and Red Lake }—Approximately \$3,000 was spent in these two townsites for improved facilities.

Beardmore and Hudson }—These townsites are studying proposals for street-lighting systems.

INDUSTRIAL LOADS SERVED DIRECTLY BY THE COMMISSION

The Commission serves as direct customers some 200 industrial companies throughout the Province which cannot satisfactorily be provided with power from municipal utilities distribution systems. These customers, with a total load of approximately 1,000,000 horsepower, comprise the mining and paper companies chiefly operating in the northern part of the Province and a variety of industries in southern Ontario.

The following is a summary of these customers grouped according to the type of industry and showing the approximate load in each group during the year:—

SUMMARY OF DIRECT CUSTOMERS—1948

Type of industry	Number of customers	Average monthly demand horsepower	kilowatts
1.—Pulp and paper mills.....	14	159,267	118,813
2.—Mining—			
(a) Gold and silver.....	67	111,531	83,202
(b) Base metals.....	4	95,930	71,564
(c) Non-metals.....	4	1,304	973
3.—Quarrying, cement, basic building materials	14	17,725	13,223
4.—Steel and electrical metallurgical industries.	7	285,825	213,226
5.—Abrasives and cyanamid.....	4	213,606	159,351
6.—Chemical.....	9	26,230	19,567
7.—Grain elevators and milling.....	5	10,872	8,110
8.—Transportation services and communications	8	4,773	3,561
9.—Government services and institutions.....	15	10,871	8,110
10.—General manufacturing.....	31	45,139	33,673
11.—Non-cost municipalities.....	7	14,014	10,454
12.—Miscellaneous.....	7	2,225	1,660

The post-war industrial expansion continued in 1948, but at the end of the year it became apparent that the rate of expansion in a large number of industries was decreasing. On account of the long period of time required to construct plants and to procure equipment, a large number of plants on which construction started in 1947 and early in 1948 were not receiving power at the end of the year; others were taking initial amounts of power only.

The pulp and paper companies, which are large users of power, materially increased loads during the year to meet the demand for their products.

The gold mining industry took an amount of power approximately equal to its 1947 load. A number of companies in the initial stages of development were temporarily forced to suspend operations due to prevailing conditions

in the industry, but these losses in load were made up by increases in load by some of the larger companies.

Increased activity in the base metal industry resulted in substantial increases in the amount of power supplied to producing companies. Enquiries for power supply from a number of inactive base metal mines were received and investigated.

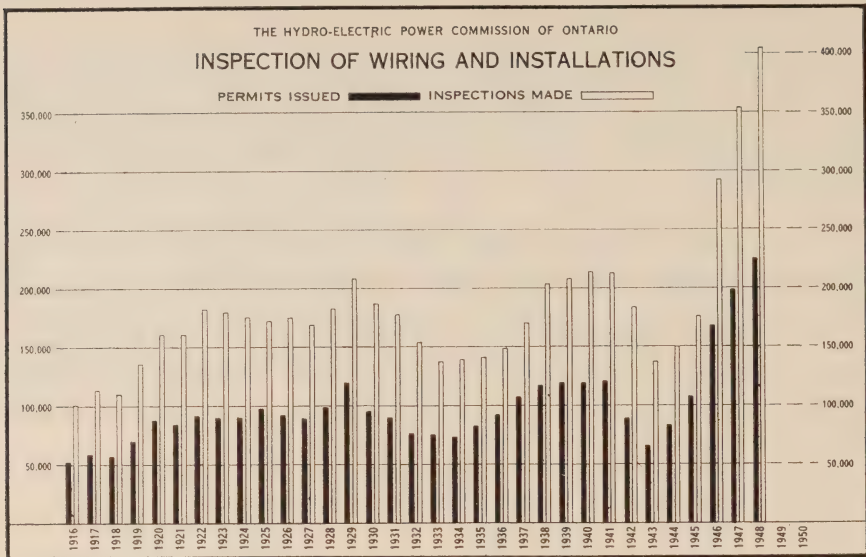
The companies manufacturing cement expanded their manufacturing facilities and arrangements were made to supply additional power in 1949.

The following tabulation shows the number of new and renewal agreements executed by the Commission with system customers in 1948, also the number of amendments which were necessary to provide for special and unforeseen conditions:—

AGREEMENTS WITH SYSTEM CUSTOMERS IN 1948

	Industrial and paper companies		Mining companies	
	Number	Approximate load in horsepower	Number	Approximate load in horsepower
New agreements executed.....	7	16,000	2	2,000
Agreements renewed.....	6	65,000	7	14,000
Agreements amended.....	7	2,500	11	74,000
Agreements under negotiation.	19	123,000	19	9,000
Agreements cancelled.....	2	.....	7	.....
Total.....	41	.....	46	.....

The number of industrial plant surveys was doubled in 1948. Altogether 43 plants were surveyed and recommendations were given regarding the selection of equipment, means of improving power factor and distribution system efficiency. Industrial plant managers are becoming increasingly aware of the economic advantages to be gained by increased efficiency in the use of electric power throughout their plants. This increased efficiency of industrial plants is also of benefit to the distribution systems of the utilities supplying power to these plants, and utility managers co-operate very closely in this work. Assistance was also rendered to municipal utilities in industrial power metering. The conservation of power received special attention during the periods of power shortage.



ELECTRICAL INSPECTION

The demand for permits to make electrical installations is a measure of the volume of business in the electrical industry. Permits issued in the fiscal year 1947-48 were up 15 per cent over the previous period. In 1948 the inspection staff was substantially increased. Difficulties in the electrical industry, due mainly to materials being in short supply, resulted in an increase of 25 per cent in incompleting inspections at the end of the 1947-48 period as compared with the end of the previous period.

Three fires only could be attributed to electrical causes in 1948, as against five in 1947, but unfortunately a similar number of persons, namely 12, lost their lives in Ontario through electrocution in 1948.

There was an increase of 22 per cent in the number of special inspections of electrical equipment completed by the Sales Control section, made necessary by the use of electrical equipment not approved by the Canadian Standards Association.

The translation of the 1947 Canadian Electrical Code into the form prescribed by the Registrar of Regulations is well advanced and when completed will be published as Regulations made by the Commission under The Power Commission Act. This project was undertaken in March 1947 in collaboration with legal counsel retained by the Commission.

SECTION IV

RURAL ELECTRICAL SERVICE

IN ONTARIO

Province-wide Distribution to Rural Communities—Provincial Aid
and Uniform Rate Structure Promote Equitable Distribution
of Benefits—Record Increase of Line Mileage and
New Consumers — Immense Growth in
Aggregate Load

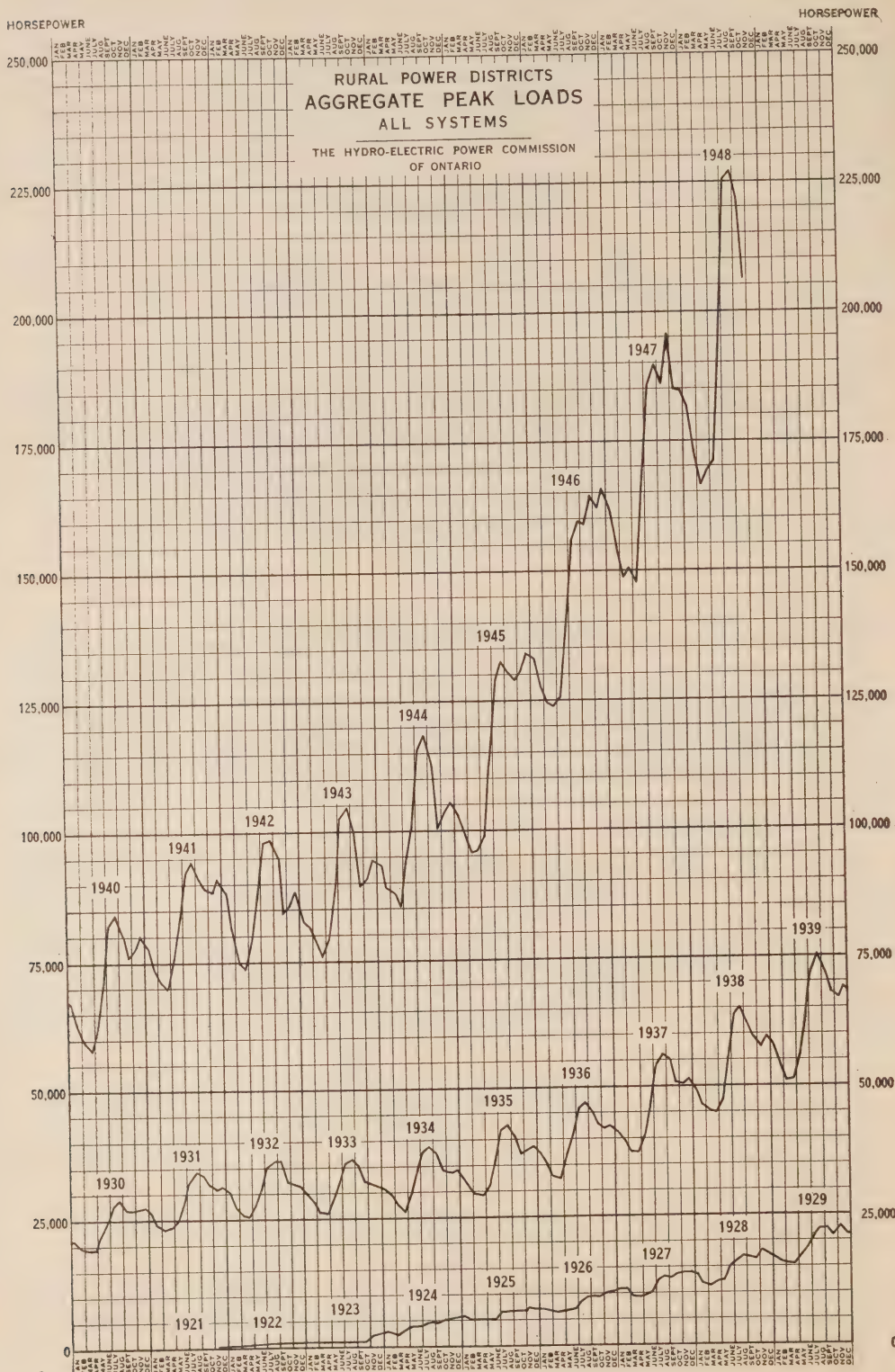
THE Commission's rural policy of providing a province-wide distribution of electricity at a uniform rate was advanced a great deal during 1948. The present record demand for rural electrical service shows little sign of abating. In spite of a year of unprecedented accomplishment, in which men and materials available to the Commission were fully utilized, it was found necessary to defer service to a large number of potential rural consumers.

Five-Year Plan Reviewed

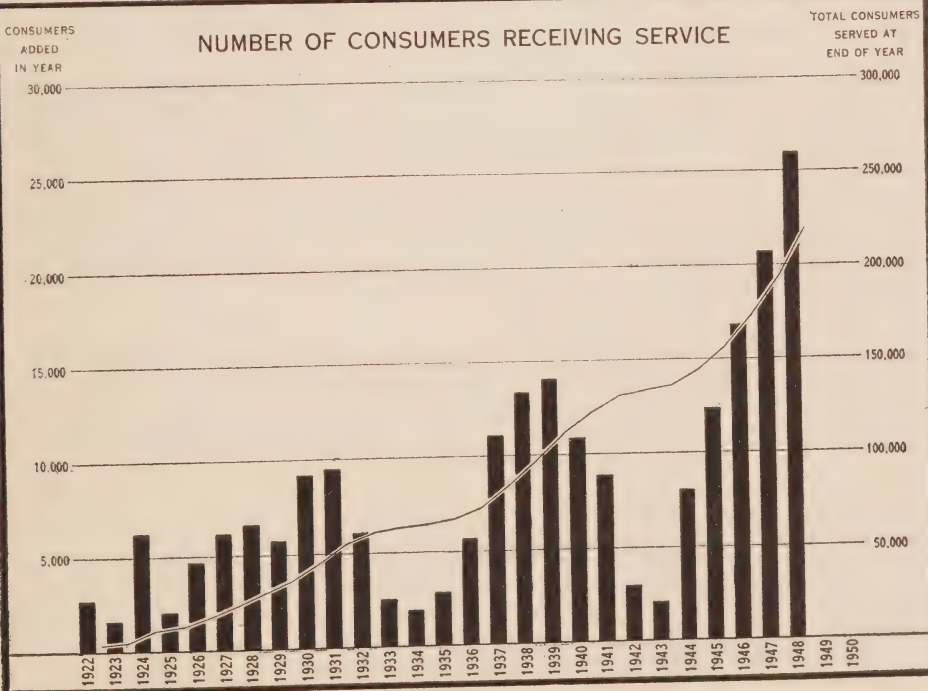
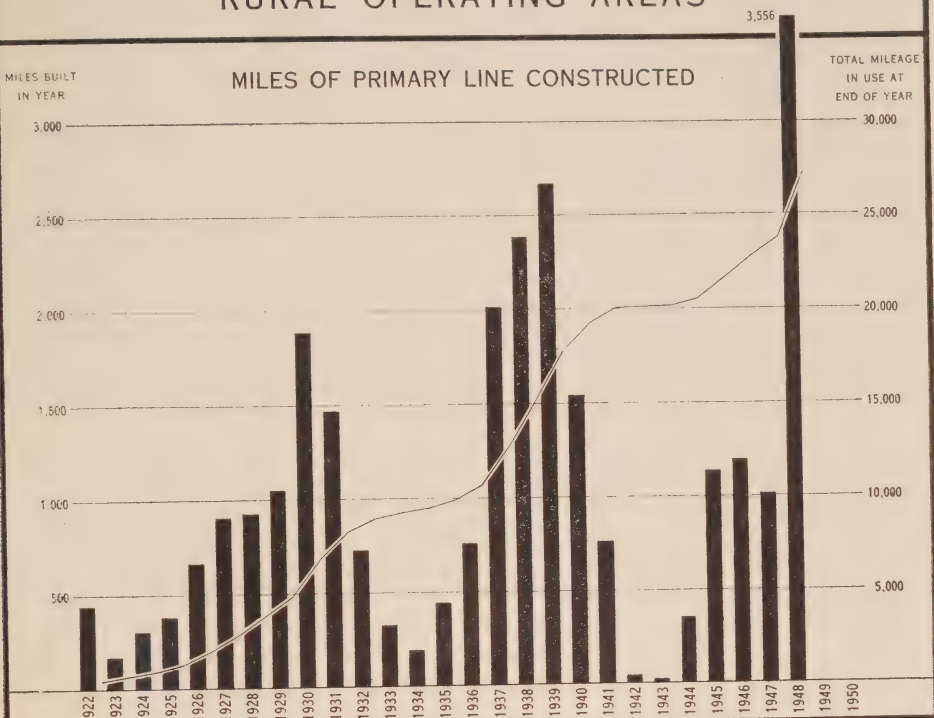
In 1946 the Commission commenced its Five-Year Post-War Plan to extend Hydro rural service, a practical implementation of its policy to increase the capacity of the existing rural lines and stations and to build new facilities to meet the expected greatly increased demands of the post-war period. Excellent progress has been made as can be seen from the following table and it is hoped that by 1950 the accumulated demands for new extensions will have been met and that future extensions will reflect normal growth.

	First year 1946	Second year 1947	Third year 1948	Three years total	Fourth year 1949	Fifth year 1950	Five years total
MILES OF LINE							
Five-year plan.....	1,135	2,151	1,532	4,818	1,357	1,154	7,329
Constructed.....	1,188	1,008	3,556	5,752	....	....	....
CONSUMERS TO BE SERVED							
Five-year plan.....	13,602	13,964	11,180	38,746	10,102	9,056	57,904
Actually served.....	16,802	20,691	26,036	63,529	....	....	....

It is interesting to note that for the first three years the mileage of new lines constructed exceeds that planned for the period by 19 per cent, and the number of consumers added exceeds the plan by 64 per cent.



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
RURAL OPERATING AREAS



The outstanding records of sales of electricity to rural communities demonstrate and measure the progress made towards raising the standard of living of farmers and other rural residents and this results in large measure from the Commission's earlier planning which was based on a desire to make Hydro available to more rural residents and to help the farmer in making the most of modern electrical methods.

Policies of rate reduction were implemented whenever practicable and relied heavily for their success upon revenues to be expected from increased sales of energy. Perhaps the boldest step was that taken in January 1944, when the Commission, with the approval of the Government, put into operation a comprehensive revision of its rural service. A uniform rate structure was established for rural districts with a common rate applicable to each class of service. Thus no matter where rural service is given in Ontario by the Hydro, the rural consumer for the same class of service and with the same consumption of electricity now pays the same amount on his quarterly bill. Effective from May 1, 1945 reductions were again made in this rate.

With the establishment of the regional offices, mentioned in Section III of this Report, the rural operating areas have been retained as basic administrative units, each controlled by an area manager, or in some cases by local commissions who act in this capacity. These report to the regional manager. The amalgamation and the unification of rates referred to above is made possible by the assistance given by the Province as part of its aid to agriculture. The extent and effect of the financial assistance in the distribution of power in rural operating areas should therefore be clearly understood.

Provincial Assistance

The Government grant-in-aid of 50 per cent of the capital cost of lines and equipment for the supply of power relates solely to the initial capital investment for distribution facilities in rural operating areas.

In addition to this grant-in-aid the Government further participates in the operation of the province-wide Hydro rural service by guaranteeing the Commission against loss due to the fixing of a maximum service charge or its reduction or removal.*

The new arrangement is a means of apportioning the benefits from provincial assistance where they will do most good; namely, to the farmer in sparsely settled and less fertile farming areas where, because of these conditions, electrical service is necessarily more costly to provide.

Status of Rural Service in 1948

At the end of 1948 the Commission was distributing electrical power in 95 rural operating areas, and in addition was constructing lines in two recently formed areas, not yet operating. In 1948 two new rural operating

*The Rural Power District Service Charge Amendment Act, 1944.

areas were formed in northwestern Ontario. Consumers in the 97 rural operating areas now total 230,760 of which 10,671 on partially constructed lines received or will receive service after November, 1948. The total power supplied during the month of August was 227,130 horsepower and during the month of October was 205,916 horsepower. It will thus be seen that the average demand per consumer is about one horsepower. The consumers served through rural operating areas are situated in 461 organized townships, 1 improvement district, 26 unorganized townships and 135 villages, police villages and small towns, and are served over a network of rural primary lines which aggregate 27,321 miles. In addition to the 487 townships served by rural operating areas, 10 townships are served jointly by rural operating areas and voted areas.

As in 1947, a large proportion of the new material and equipment which became available during 1948 had to be used to strengthen the carrying capacity of existing lines before new lines could be extended and new loads carried. This increase in capacity of lines nearer the sources of supply will enable the Commission to supply power to many new extensions.

As recorded in last year's Annual Report the Commission hoped to construct 3,429 miles of line during 1948. The actual mileage constructed was 3,556. The rural program, however, is one of continuous change as applications for service are received and from time to time extensions are approved. The mileage of rural line extensions approved in 1948 was 4,792.

On October 31, 1948, there were enough rural applications for service on hand to warrant the construction of 3,104 miles of new primary line in addition to 2,210 miles not completed in 1948. The total program therefore is now 5,314 miles, of which the Commission hopes to construct 3,889 during 1949 and the remainder, with new additions, in 1950.

The net increase in the number of consumers actually served during 1948, after making allowance for cancellation and sale of lines in territories annexed to municipalities, was about 26,000. The number of consumers added in 1948 was substantially higher than in any year since the commencement of rural power distribution.

Since 1921 the Commission was unable during two periods to maintain the rate of growth of rural electrification. The first period started about 1932, and was the result of the depression of the early nineteen-thirties. The second occurred during the recent war when service was provided only to those farms which would aid the war effort by increased production. To illustrate this feature of rural service two graphs have been placed in this section showing for each year since 1921 the miles of primary line constructed and the number of consumers who received service.

The growth in power requirement of the rural operating areas was consistent with the large increase of consumers served. There were two periods during 1948, however, in which the Commission found it necessary to restrict the use of power to most Hydro customers and the load in the rural areas was reduced during certain months. Notwithstanding these curtailments the average aggregate peak load supplied to all rural Hydro consumers, amounted to 193,144 horsepower, an increase of 15 per cent over 1947.

The maximum aggregate power sold in rural areas usually occurs during the summer months of July or August. During August 1948 the peak was 227,130 horsepower or 20 per cent higher than the previous summer peak.

The remarkable growth of rural service is shown on the accompanying table of load growth during the last eleven years and on the peak load diagram. It is interesting to note that the rural peak load in 1948 was approximately three and one-half times the peak load prior to the War.

LOAD GROWTH—RURAL OPERATING AREAS

Year	Maximum aggregate peak load during year		Average aggregate peak load during year	
	Horsepower	Increase for month	Horsepower	Annual increase
		%		%
1938.....	65,022	8.5	53,383	7.9
1939.....	75,233	10.2	61,634	8.3
1940.....	84,346	9.1	70,018	8.4
1941.....	94,505	10.2	81,245	11.2
1942.....	98,887	4.4	86,616	5.4
1943.....	104,394	5.5	88,186	1.6
1944.....	118,267	13.9	98,576	10.4
1945.....	132,572	14.3	111,255	12.7
1946.....	164,424	36.1	139,818	28.6
1947.....	195,515	31.1	167,861	28.0
1948.....	227,130	19.9	193,144	15.0

Aggregate peak load is the summation of peak loads of all rural operating areas for highest aggregate month. Increase indicates per cent over same month in previous year.

Average aggregate peak load is the summation of twelve monthly peak loads for each and all rural operating areas divided by twelve.

RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION
DURING THE YEAR 1948

System	Miles of primary line	Net increase in number of consumers			Power supplied in October 1948	Capital approved for extensions	
		Farm	Non-farm	Total		Total	Provincial grant-in-aid
					h.p.	\$	\$
SOUTHERN ONTARIO							
Niagara division.....	1,192.40	5,097	8,534	13,631	134,392	8,596,944	4,298,472
Georgian Bay division.....	1,288.75	3,658	3,584	7,242	22,667	6,067,456	3,033,728
Eastern Ontario div....	1,628.28	4,743	4,572	9,315	42,086	7,508,276	3,754,138
Southern Ontario totals.	4,109.43	13,498	16,690	30,188	199,145	22,172,676	11,086,338
THUNDER BAY.....	147.90	353	282	635	1,531	796,438	398,219
NORTHERN ONTARIO PROPERTIES.....	534.20	1,184	2,247	3,431	5,240	3,094,272	1,547,136
Totals.....	4,791.53	15,035	19,219	34,254	205,916	26,063,386	13,031,693

SUMMARY OF RURAL LINE CONSTRUCTION

Approved by the Commission from June 1, 1921 to October 31, 1948

Constructed or Under Construction

System	Miles of primary line	Number of consumers			Capital expenditure†	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
					\$ c.	\$ c.
SOUTHERN ONTARIO						
Niagara division....	14,767.00	56,550	72,089	128,639	40,033,664.95	19,874,667.45
Georgian Bay div....	5,412.15	13,558	24,425	37,983	13,108,879.19	6,423,200.95
Eastern Ontario div.	7,730.10	22,101	30,036	52,137	20,226,553.90	10,030,446.50
Southern Ont. totals..	27,909.25	92,209	126,550	218,759	73,369,098.04	36,328,314.90
THUNDER BAY.....	499.22	1,080	1,492	2,572	1,448,652.64	724,326.32
NORTHERN ONTARIO PROPERTIES.....	1,123.21	2,252	7,177	9,429	4,592,556.78	2,146,695.02
Totals.....	29,531.68*	95,541	135,219	230,760	79,410,307.46	39,199,336.24

*These totals include 2,210.44 miles of primary line under construction on October 31, 1948 and service to 10,671 (consisting of 7,463 farm and 3,208 non-farm) new consumers not completed until after the end of the fiscal year.

†During previous years the figures published in this statement represented the summation of all estimates since the beginning of rural operation. As the Commission was able in a large number of cases to construct these lines for a sum lower than the original estimate, it is now deemed advisable to show the actual cost for all years 1921 to 1948. Included in these figures is an estimate of the cost of completing lines partially constructed in 1948.

UNIFORM RURAL RATE STRUCTURE

The uniform rural rate structure now in use for the sale of energy, was placed in effect on January 1, 1944 for all rural Hydro service throughout the Province. It replaced the numerous rural rate schedules previously in effect.

A further reduction in the first energy charge was made on May 1, 1945, so that the new energy rates now consist of a three-step energy charge, as follows:

1. A first block or number of kilowatt-hours of energy consumption in the billing period, charged for at 3.5 cents gross per kilowatt-hour;
2. A second block or number of kilowatt-hours of energy consumption in the billing period, charged for at 1.6 cents gross per kilowatt-hour; and
3. All remaining kilowatt-hours of energy consumption in the billing period, charged for at 0.75 cents gross per kilowatt-hour.

In addition, the service charge in use prior to January 1, 1944, was eliminated in the case of Farm and Commercial service, reduced by 50 per cent for Hamlet service and changed to an annual fixed charge in the case of Summer service.

Under the new rate schedules, rural service is now available in four main classes. All rural contracts for service carry a symbol consisting of a letter

indicating the classification of the contract, followed by a number which indicates the demand rating or permissible demand contracted for in kilowatts. These classes and symbols are: Farm service, F; Hamlet service, H; Commercial service, C, and Summer service, S.

The following are the rate schedules for the main classes of service with various demand ratings:

RATE SCHEDULES FOR RURAL SERVICE

FARM SERVICE

Minimum demand rating for billing purposes—3 kilowatts

Farm rating	Demand in kw	Service charge	Kw-hrs per month at 3.5 cents per kw-hr	Kw-hrs per month at 1.6 cents per kw-hr	Kw-hrs per month at 0.75 cents per kw-hr	Min. bill per month gross
F3	3	Nil	60	180	Balance	\$ c 2.25
F4	4	"	80	240	"	3.00
F5	5	"	100	300	"	3.75
F6	6	"	120	360	"	4.50
F7	7	"	140	420	"	5.25
F8	8	"	160	480	"	6.00
F9	9	"	180	540	"	6.75
F10	10	"	200	600	"	7.50

NOTE: Farm classes above F3 are computed by adding, for each month, 20 kw-hrs to the number of kw-hrs at the first rate, and 60 kw-hrs to the number of kw-hrs at the second rate, for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

HAMLET SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Hamlet rating	Demand in kw	Monthly service charge	Kw-hrs per month at 3.5 cents per kw-hr	Kw-hrs per month at 1.6 cents per kw-hr	Kw-hrs per month at 0.75 cents per kw-hr	Min. bill per month gross
H2	2	cents 56	40	80	Balance	\$ c 1.67
H3	3	"	40	180	"	2.25
H4	4	"	60	240	"	3.00
H5	5	"	80	300	"	3.75
H6	6	"	100	360	"	4.50
H7	7	"	120	420	"	5.25
H8	8	"	140	480	"	6.00
H9	9	"	160	540	"	6.75
H10	10	"	180	600	"	7.50

NOTE: Hamlet classes above H3 are computed by adding, for each month, 20 kw-hrs to the number of kw-hrs at the first rate and 60 kw-hrs to the number of kw-hrs at the second rate for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

COMMERCIAL SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Commercial rating	Demand in kw	Monthly service charge	Kw-hrs per month at 3.5 cents per kw-hr	Kw-hrs per month at 1.6 cents per kw-hr	Kw-hrs per month at 0.75 cents per kw-hr	Min. bill per month gross
C1*	1	Nil	30	60	Balance	\$ c 0.75
C2	2	"	60	120	"	1.50
C3	3	"	90	180	"	2.25
C4	4	"	120	240	"	3.00
C5	5	"	150	300	"	3.75
C6	6	"	180	360	"	4.50
C7	7	"	210	420	"	5.25
C8	8	"	240	480	"	6.00
C9	9	"	270	540	"	6.75
C10	10	"	300	600	"	7.50

NOTE: Commercial classes above C2 are computed by adding, for each month, 30 kw-hrs to the number of kw-hrs at the first rate and 60 kw-hrs to the number of kw-hrs at the second rate, for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

*Only available in combination with a hamlet service.

SUMMER SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Summer rating	Demand in kw	Annual fixed charge	Kw-hrs per annum at 3.5 cents per kw-hr	Kw-hrs per annum at 1.6 cents per kw-hr	Kw-hrs per annum at 0.75 cents per kw-hr	Minimum bill
S2	2	\$ c 11.11	150	450	Balance	Nil
S3	3	15.56	225	675	"	"
S4	4	15.56	300	900	"	"
S5	5	16.67	375	1,125	"	"
S6	6	20.00	450	1,350	"	"
S7	7	23.33	525	1,575	"	"
S8	8	26.67	600	1,800	"	"
S9	9	30.00	675	2,025	"	"
S10	10	33.33	750	2,250	"	"

NOTE: Summer Service classes above S2 are computed by adding, for each year 75 kw-hrs to the number of kw-hrs at the first rate and 225 kw-hrs to the number of kw-hrs at the second rate for each increase of 1 kw in demand.

The annual fixed charge for all classes above S4 is \$3.33 for each kw in demand.

Prompt payment discount 10 per cent.

DESCRIPTION OF MAIN CLASSES OF HYDRO RURAL SERVICE

Beginning January 1, 1944 electrical service was supplied in rural operating areas under four main classes described below. When the class of service which will meet the requirements of the individual consumer has been

chosen, contracts are executed between the consumer and the corporation of the township concerned.

Farm Service

Farm service shall be considered to be service to property having lands used for the production of food stuff or industrial crops for sale and from which a substantial livelihood is obtained. It shall include electrical service to all farm buildings and equipment situated on the farm and used for farm purposes, including buildings and equipment required for processing the products of the customer's farm.

Service under a single farm contract may be supplied to all dwellings or separate domestic establishments situated on the farm property and occupied by persons who are regularly engaged in the operation of the farm.

Additional dwellings or domestic establishments situated on a farm property and occupied by persons not regularly engaged in the operation of the farm, if served, shall be classed as hamlet contracts and rated accordingly. Small properties of five acres and less will be classed as hamlet services except under special circumstances which would justify a farm classification.

The minimum demand rating of a farm service for billing purposes shall be taken as three kilowatts.

Hamlet Service

Hamlet service shall be considered to be service to a domestic establishment or residence in a rural or in a small suburban community served as part of a rural operating area. This class shall include isolated rural residences.

The demand rating of a two-wire hamlet service will be taken as two kilowatts and will be limited by a 20-ampere breaker or a 30-ampere fuse. Where the hamlet service exceeds two kilowatts, three-wire service shall be supplied and the minimum demand rating for a three-wire service shall be three kilowatts.

Commercial Service

Commercial service shall be considered to be service to community or business premises including schools, churches, public halls, hospitals, hotels, public boarding houses, tourist camps, business and professional offices, stores, repair shops, garages, gasoline stations, blacksmith and woodworking shops, small manufacturing and processing plants, chick hatcheries, sign and display lighting and all other premises used for commercial or community purposes.

Single-phase power only will be supplied under a commercial contract. Where three-phase power is required, the service will be classed as an "Industrial power service."

The minimum demand rating of a commercial contract shall be two kilowatts for a two-wire service and three kilowatts for a three-wire service.



RURAL ELECTRICAL SERVICE IN ONTARIO

Enables the farmer to apply many ingenious labour-saving devices. The illustration above shows a portable inclined elevator driven by an electric motor raising sacks of feed from a parked truck to the upper floor of the storage barn.

Summer Service

Summer service is applicable to properties where service is used normally only during the summer months and which are not established as the consumer's permanent residence. This service is not limited to cottages, but may include summer hotels, tourist camps, refreshment booths and other commercial premises.

The demand rating of a two-wire summer service will be taken as two kilowatts and will be limited to a maximum of a 20-ampere breaker or a 30-ampere fuse. Where the summer service exceeds two kilowatts, three-wire service shall be supplied and the minimum demand rating for a three-wire service shall be three kilowatts.

STANDARD NUMBER OF CONSUMERS PER MILE

The number of consumers required per mile of line extension varies according to classification and rating of all applicants. For this purpose

a unit rating is allocated to each consumer, according to the classification and rating.

The following table shows the number of units and contracts per mile for each class of service:—

Classification of consumer	Rating in kilowatts	Units per contract	Contracts per mile
Single Services			
Farm.....	3 and over	5	2
Hamlet.....	2	3	3.33
Hamlet.....	3	3	3.33
Hamlet.....	4	3	3.33
Hamlet.....	5 and over	4	2.5
Commercial.....	2	3	3.33
Commercial.....	3	3	3.33
Commercial.....	4	3	3.33
Commercial.....	5 and over	4	2.5
Summer.....	2	2	5
Summer.....	3	2	5
Summer.....	4	2	5
Summer.....	5 and over	3	3.33
Multiple Services			
Farm.....	3 and over	5	2
Hamlet.....	4	3	3.33
Hamlet.....	5 and over	4	2.5
Commercial.....	4	3	3.33
Commercial.....	5 and over	4	2.5
Summer.....	4	2	5
Summer.....	5 and over	3	3.33
Combination Services			
Total kilowatts of:			
Combined Farm with Hamlet or Commercial.....	4 and over	5	2
Combined Hamlet with Commercial.....	up to 4	3	3.33
Combined Hamlet with Commercial.....	5 and over	4	2.5

FARM USES FOR ELECTRICITY

The uses made of electrical service by farmers can be divided broadly into those applications which provide a higher standard of living in the farm home, and those which add to the productive capacity of the farm. Some applications, for example lighting and water pumping, do both.

Farming is a productive industry and the ability of electrical service to provide light, heat and power in a wide range of intensities free from the hazards associated with oil or other fuel and the ease with which electricity may be controlled, permit applications to farm production problems not feasible with any other source of power.

These applications result in savings in labour, increased production, improved quality, prevention of waste, reduced costs and substantial increases in earnings.

To the farm home electricity can bring the same conveniences as are enjoyed by urban residents. It eliminates the drudgery of many household

tasks, improves health and comfort and, through the radio, furnishes entertainment, news, discussion of current topics and market reports, all of which bring greater contentment to the rural way of life.

In building up his electrical equipment to receive the maximum benefit from Hydro rural service, the farmer should keep a nice balance between appliances for use in the home and appliances which will add to the productive capacity of his farm. It is especially desirable that following the installation of lighting service in the home and outbuildings his early concern should be to purchase equipment which will result in cash returns.

Lighting Service

Electric lighting is safe, convenient and reduces the fire hazard to a minimum. It adds comfort and attractiveness to the farm home. In the barn and other buildings it saves time and prevents accidents while doing chores.

In productive operations it is used in the poultry laying house to supplement daylight during the winter months, thus increasing egg production during a period when prices are higher.

In floriculture lighting may be used to promote or retard the flowering of certain plants in order to meet the demand of special occasions.

Special applications of lighting include insect traps, infra-red lamps for brooders and ultra-violet lamps to improve the health of poultry and other stock.

Heating Service

The safety and ease of control of electricity as a source of heating has found many applications. In the home it makes possible many of the familiar appliances, such as irons, toasters, hot plates, electric ranges and water heaters, all of which add to the comfort and convenience of the home. The ease of automatic control of electric heat has found application in incubators and poultry brooders, where accurate control of temperature is necessary.

Water heaters and dairy sterilizing equipment assist in maintaining a high quality of milk production. Small capacity heaters are used to maintain drinking water at suitable temperature for poultry, with resultant increases in egg production during the winter months. Electric heat also finds application in brooders for pigs and lambs, preventing loss of these animals during cold weather and effecting substantial savings and increased earnings.

In horticulture electric soil heating is used for the early germination and propagation of seeds and plants and their protection against frost.

Power for Electric Motors

Electric motors find many uses in replacing manual effort. A quarter-horsepower motor can operate any machine that can be operated by hand, thus effecting savings in time and effort.

In the home motors make possible washing machines, ironing machines, vacuum cleaners, fans, furnace blowers, water pumps and refrigerators and the new cold storage home locker for the preservation and storage of perish-

able foods in quantity. Thus, motors contribute toward making the farm home equal in comfort and convenience to the urban home.

In farming operations electric motors are used for grinding grain and the operation of feed mixers, effecting substantial cash savings. They are also used for pumping water for stock and the operation of milking machines, cream separators and milk coolers. These result in very substantial savings in labour, and increases in production, and permit the handling of larger herds, effecting increases in farm earnings.

Portable utility motors of various sizes find many applications, such as wood cutting, hoisting hay, elevating grain, seed cleaning and, in the workshop, motor-driven grinders and other equipment provide facilities for maintaining farm equipment in repair and facilitate the construction of various pieces of useful equipment in connection with farming operations.

Electrical Appliances in Use in Rural Areas

Due to war and post-war conditions no survey has been made of the number of appliances in use in rural areas since 1942. For statistics for 1942 consult Annual Report for 1946, pages 69 and 70.

RURAL SERVICE STATISTICS 1944 TO 1947

Service	Year	Annual revenue	Energy consumption	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption
		\$ c.	kw-hrs.		cents	\$ c.	kw-hrs.
Farm service	1944	2,396,508.94	113,706,660	59,639	2.11	3.53	167
	1945	2,606,431.15	137,194,727	65,141	1.90	3.48	183
	1946	3,072,921.16	176,460,859	72,285	1.74	3.72	214
	1947	3,430,307.61	206,420,795	78,668	1.66	3.79	228
Hamlet service	1944	1,937,102.28	82,106,734	56,130	2.36	2.95	125
	1945	2,027,283.82	92,056,781	58,867	2.20	2.93	133
	1946	2,345,531.81	118,287,655	66,177	1.98	3.12	158
	1947	2,754,265.69	150,411,043	74,879	1.83	3.24	178
Commercial service . .	1944	341,646.50	15,010,213	8,262	2.28	3.51	154
	1945	381,570.09	18,915,619	8,870	2.02	3.72	184
	1946	468,391.94	25,069,924	10,315	1.87	4.07	218
	1947	572,625.58	33,304,037	11,851	1.72	4.30	250
Summer service	1944	435,622.43	11,859,662	19,291	3.67	1.93	53
	1945	473,887.53	14,250,142	20,947	3.33	1.96	59
	1946	555,833.10	18,352,748	24,244	3.03	2.05	68
	1947	632,102.22	21,116,561	27,182	2.99	2.04	68

*It may be observed that the number of consumers reported here does not agree with those shown in other sections of the Annual Report of the Commission. This is due to the fact that the figures given here represent consumers actually billed, but do not include power or special contracts; whereas, elsewhere in the Report the tables show the number of contracts executed to the end of the fiscal year. In many cases service is not given until the following year.

1944 Estimated—due to reclassification during the year.

1944-5-6 Figures are for each fiscal year ended October 31st.

1947 Figures represent total billings to each consumer during the previous twelve months. Therefore, any increase or decrease in a consumer's demand after the last billing period is not reflected in this statement.

HAMLET AND HOUSE LIGHTING SERVICE

Classified as 1B, 1C and 2A from 1928 to 1943

Year	Annual revenue	Energy consumption	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption.
	\$ c.	kw-hrs.		cents	\$ c.	kw-hrs.
1928	530,407.00	10,702,031	17,585	4.95	2.51	50.7
1929	663,311.00	14,424,770	21,219	4.60	2.85	62.0
1930	757,558.00	17,815,987	25,013	4.25	2.73	64.2
1931	974,224.17	22,127,474	31,176	4.40	2.88	65.6
1932	1,075,081.03	24,654,386	33,368	4.36	2.76	63.3
1933	1,133,368.70	25,410,470	35,941	4.46	2.70	60.1
1934	1,149,876.67	27,768,460	37,466	4.14	2.61	63.0
1935	1,171,873.28	30,802,290	39,751	3.80	2.53	66.5
1936	1,239,010.83	35,666,241	43,014	3.47	2.49	71.8
1937	1,331,919.46	40,935,040	46,785	3.25	2.47	76.0
1938	1,439,681.39	47,612,820	52,514	3.02	2.42	79.9
1939	1,649,496.29	54,787,544	58,328	3.01	2.36	78.3
1940	1,812,550.53	60,839,240	62,973	2.98	2.40	80.5
1941	1,995,468.46	67,587,082	67,939	2.95	2.45	82.9
1942	2,118,911.57	72,613,472	69,766	2.92	2.56	87.9
1943	2,170,221.41	73,980,871	70,919	2.93	2.57	87.6

FARM SERVICE

Classified as 2B, 3, 4, 5, 6A, 6B, 7A and 7B

from 1928 to 1943

Year	Annual revenue	Energy consumption	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption.
	\$ c.	kw-hrs.		cents	\$ c.	kw-hrs.
1928	569,007.00	10,969,828	9,309	5.18	4.97	96
1929	777,736.00	16,022,842	12,605	4.85	5.85	121
1930	863,805.00	20,507,063	16,011	4.21	5.03	119
1931	1,128,554.28	25,716,141	20,796	4.39	5.11	116
1932	1,255,482.13	28,675,400	22,432	4.38	4.84	110
1933	1,309,122.96	30,062,194	23,283	4.35	4.75	109
1934	1,319,922.69	33,312,314	23,882	3.96	4.66	118
1935	1,343,222.39	37,667,453	25,357	3.57	4.55	128
1936	1,385,784.39	45,447,669	28,198	3.05	4.31	141
1937	1,366,484.50	54,858,240	35,508	2.49†	3.57	144†
1938	1,711,788.81	67,886,882	44,565	2.52†	3.56	141†
1939	2,090,259.14	81,613,087	53,240	2.56†	3.56	139†
1940	2,405,092.40	93,859,719	58,728	2.56†	3.41	133†
1941	2,690,250.37	107,061,610	63,304	2.51	3.54	141
1942	2,870,300.31	116,448,363	63,748	2.46	3.75	152
1943	2,934,011.31	121,428,714	64,292	2.42	3.81	158

* See footnote to table on previous page.

† In the period 1937 to 1940, there was an increase in the statistical average revenue per kilowatt-hour and a decrease in the statistical average monthly consumption per consumer. Actually there was a great increase in the use of electricity by nearly all individual Hydro consumers and a corresponding decrease to each consumer in the average cost per kilowatt-hour. But due to the tremendous growth at that time in new consumers, who for the first few years were not equipped to use large quantities of electricity each month, the smaller monthly consumption of the new consumers when averaged with the increased use of the older consumers produced per consumer averages which obscured the true trends of individual growth in use, and, individual reductions in costs.

RATE SCHEDULES FOR INDUSTRIAL POWER SERVICE
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS

Industrial Power Service

Power service shall cover three-phase service to power users such as creameries, cheese factories, chopping mills, industries and special loads which cannot be supplied as Commercial single-phase service.

Note:—Early in 1949 the Commission changed the method of billing the power demand of industrial power consumers by using kilowatt instead of horsepower. This does not constitute a change in power cost to the consumer, but is used to simplify billing procedure. In the table below the actual basic rate—i.e. the net yearly charge computed by assuming 130 hours monthly use of one horsepower—in force during 1948 is shown as in previous years, but the former service charge per horsepower per month is now shown as the equivalent service charge per kilowatt per month.

In cases where special local discounts were in force equivalent reductions in service charge and energy rates have been incorporated.

INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one h.p.	Service charge per kw per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All additional per kw-hr	Prompt payment discount
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Southern Ontario System—Niagara Division

		\$ c.	\$ c.	cents	cents	cents	%
Aylmer.....	Aylmer.....	27.00	1.35	2.3	1.5	0.33	10
Beamsville.....	Beamsville.....	24.00	1.20	2.1	1.4	0.30	10
Blenheim.....	Blenheim.....	28.00	1.35	2.5	1.6	0.33	10
Bothwell.....	Bothwell.....	30.00	1.35	2.8	1.8	0.33	10
Brampton.....	Brampton.....	26.00	1.35	2.2	1.4	0.33	10
Brantford.....	Brantford.....	26.00	1.35	2.2	1.4	0.33	10
Burlington.....	Burlington.....	25.00	1.35	2.0	1.3	0.33	10
Cayuga.....	Cayuga.....	33.00	1.35	3.2	2.1	0.33	10
Chatham.....	Chatham.....	25.00	1.35	2.0	1.3	0.33	10
Clinton.....	Clinton.....	31.00	1.35	2.9	1.9	0.33	10
Delaware.....	Delaware.....	26.00	1.35	2.2	1.4	0.33	10
Dorchester.....	Dorchester.....	26.00	1.35	2.2	1.4	0.33	10
Dundas.....	Dundas.....	25.00	1.35	2.0	1.3	0.33	10
Elmira.....	Elmira.....	26.00	1.35	2.2	1.4	0.33	10
Essex.....	Essex.....	27.00	1.35	2.3	1.5	0.33	10
Exeter.....	Exeter.....	30.00	1.35	2.8	1.8	0.33	10
Forest.....	Forest.....	31.00	1.35	2.9	1.9	0.33	10
Guelph.....	Guelph.....	24.00	1.20	2.1	1.4	0.30	10
Harrow.....	Harrow.....	28.00	1.35	2.5	1.6	0.33	10
Ingersoll.....	Ingersoll.....	25.00	1.35	2.0	1.3	0.33	10
Kingsville.....	Kingsville.....	28.00	1.35	2.5	1.6	0.33	10
Kitchener.....	Kitchener.....	26.00	1.35	2.2	1.4	0.33	10
Listowel.....	Listowel.....	26.00	1.35	2.2	1.4	0.33	10
London.....	London.....	25.00	1.35	2.0	1.3	0.33	10
Lucan.....	Lucan.....	30.00	1.35	2.8	1.8	0.33	10

**INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one h.p.	Service charge per kw per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All addi- tional per kw-hr	Prompt payment discount
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Southern Ontario System—Niagara Division—Continued

		\$ c.	\$ c.	cents	cents	cents	%
Markham.....	Markham.....	26.00	1.35	2.2	1.4	0.33	10
Merlin.....	Merlin.....	28.00	1.35	2.5	1.6	0.33	10
Mitchell.....	Mitchell.....	28.00	1.35	2.5	1.6	0.33	10
St. Catharines.....	Niagara.....	23.00	1.20	1.9	1.3	0.30	10
Norwich.....	Norwich.....	26.00	1.35	2.2	1.4	0.33	10
Oil Springs.....	Oil Springs.....	31.00	1.35	2.9	1.9	0.33	10
Richmond Hill.....	Richmond Hill.....	26.00	1.35	2.2	1.4	0.33	10
Ridgetown.....	Ridgetown.....	32.00	1.35	3.1	2.0	0.33	10
St. Thomas.....	St. Thomas.....	27.00	1.35	2.3	1.5	0.33	10
Stoney Creek.....	Saltfleet.....	22.00	1.20	1.7	1.2	0.30	10
	Caledonia Section.....	25.00	1.35	2.0	1.3	0.33	10
Sarnia.....	Sarnia.....	29.00	1.35	2.6	1.7	0.33	10
Simcoe.....	Simcoe.....	28.00	1.35	2.5	1.6	0.33	10
Stratford.....	Stratford.....	26.00	1.35	2.2	1.4	0.33	10
Sutton.....	Sutton.....	28.00	1.35	2.5	1.6	0.33	10
Tillsonburg.....	Tillsonburg.....	26.00	1.35	2.2	1.4	0.33	10
Wallaceburg.....	Wallaceburg.....	27.00	1.35	2.3	1.5	0.33	10
Welland.....	Welland.....	20.00	1.20	1.4	1.9	0.30	10
West Lorne.....	West Lorne.....	30.00	1.35	2.8	1.8	0.33	10
Windsor.....	Windsor.....	25.00	1.35	2.0	1.3	0.33	10
Woodbridge.....	Woodbridge.....	27.00	1.35	2.3	1.5	0.33	10
Woodstock.....	Woodstock.....	25.00	1.35	2.0	1.3	0.33	10

Southern Ontario System—Georgian Bay Division

		\$ c.	\$ c.	cents	cents	cents	%
Alliston.....	Alliston.....	30.00	1.35	2.8	1.8	0.33	10
Bala.....	Bala.....	25.00	1.35	2.0	1.3	0.33	10
Barrie.....	Barrie.....	30.00	1.35	2.8	1.8	0.33	10
Bracebridge.....	Bracebridge.....	29.00	1.35	2.6	1.7	0.33	10
Cannington.....	Cannington.....	31.00	1.35	2.9	1.9	0.33	10
Orillia.....	Hawkestone.....	24.00	1.20	2.1	1.4	0.30	10
Huntsville.....	Huntsville.....	28.00	1.35	2.5	1.6	0.33	10
Penetanguishene.....	Midland.....	27.00	1.35	2.3	1.5	0.33	10
Orangeville.....	Orangeville.....	36.00	1.35	3.7	2.4	0.33	10
Owen Sound.....	Owen Sound.....	32.00	1.35	3.1	2.0	0.33	10
Parry Sound.....	Parry Sound.....	27.00	1.35	2.3	1.5	0.33	10
Shelburne.....	Shelburne.....	31.00	1.35	2.9	1.9	0.33	10
Stayner.....	Stayner.....	26.00	1.35	2.2	1.4	0.33	10
Uxbridge.....	Uxbridge.....	32.00	1.35	3.1	2.0	0.33	10
Walkerton.....	Walkerton.....	30.00	1.35	2.8	1.8	0.33	10
Wingham.....	Wingham.....	31.00	1.35	2.9	1.9	0.33	10

**INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one h.p.	Service charge per kw per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All addi- tional per kw-hr	Prompt payment discount
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Southern Ontario System—Eastern Ontario Division

		\$ c.	\$ c.	cents	cents	cents	%
Arnprior.....	Arnprior.....	25.00	1.35	2.0	1.3	0.33	10
Belleville.....	Belleville.....	24.00	1.20	2.1	1.4	0.30	10
Bowmanville.....	Bowmanville.....	26.00	1.35	2.2	1.4	0.33	10
Brockville.....	Brockville.....	25.00	1.35	2.0	1.3	0.33	10
Carleton Place....	Carleton Place....	24.00	1.20	2.1	1.4	0.30	10
Cobourg.....	Cobourg.....	25.00	1.35	2.0	1.3	0.33	10
Delta.....	Delta.....	26.00	1.35	2.2	1.4	0.33	10
Fenelon Falls.....	Fenelon Falls.....	28.00	1.35	2.5	1.6	0.33	10
Frankford.....	Frankford.....	23.00	1.20	1.9	1.3	0.30	10
	Brighton.....	23.00	1.20	1.9	1.3	0.30	10
Kingston.....	Kingston.....	25.00	1.35	2.0	1.3	0.33	10
Lakefield.....	Lakefield.....	25.00	1.35	2.0	1.3	0.33	10
Lancaster.....	Martintown.....	33.00	1.35	3.2	2.1	0.33	10
Millbrook.....	Millbrook.....	28.00	1.35	2.5	1.6	0.33	10
Minden.....	Minden.....	28.00	1.35	2.5	1.6	0.33	10
Napanee.....	Napanee.....	24.00	1.20	2.1	1.4	0.30	10
Norwood.....	Norwood.....	31.00	1.35	2.9	1.9	0.33	10
Oshawa.....	Oshawa.....	25.00	1.35	2.0	1.3	0.33	10
Ottawa.....	Ottawa.....	22.00	1.20	1.7	1.2	0.30	10
Perth.....	Perth.....	26.00	1.35	2.2	1.4	0.33	10
Peterborough.....	Peterborough.....	20.00	1.20	1.4	0.9	0.30	10
Picton.....	Picton.....	29.00	1.35	2.6	1.7	0.33	10
Plantagenet.....	Plantagenet.....	33.00	1.35	3.2	2.1	0.33	10
Cobden.....	Renfrew.....	25.00	1.35	2.0	1.3	0.33	10
Tweed.....	Tweed.....	34.00	1.35	3.4	2.2	0.33	10
Winchester.....	Winchester.....	26.00	1.35	2.2	1.4	0.33	10

Thunder Bay System

		\$ c.	\$ c.	cents	cents	cents	%
Thunder Bay.....	Thunder Bay.....	24.00	1.20	2.1	1.4	0.30	10

Northern Ontario Properties

		\$ c.	\$ c.	cents	cents	cents	%
*Matheson.....	Connaught.....	34.00	1.35	3.4	2.2	0.33	10
Kagawong.....	Manitoulin.....	35.00	1.35	3.5	2.3	0.33	10
*North Bay.....	North Bay.....	34.00	1.35	3.4	2.2	0.33	10
*Fort Frances.....	Rainy River.....	39.00	1.35	4.1	2.7	0.33	10
*Sudbury.....	Sudbury.....	30.00	1.35	2.8	1.8	0.33	10
New Liskeard....	Timiskaming.....	33.00	1.35	3.2	2.1	0.33	10

*1949 rate: For rate in force during 1948, see Annual Report 1947.

RURAL OPERATING AREAS
MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1948
Constructed and Under Construction

Rural operating area	Miles of line	Number of consumers						Not completed in 1948*	
		F. m	Ham-let	Com-mercial	Sum-mer	Power	Total	Miles	Con-sumers
Southern Ontario System—Niagara Division									
Aylmer.....	318.98	1,406	798	169	152	6	2,531	5.56	11
Beamsville.....	318.73	1,819	923	178	145	19	3,084	15.01	32
Blenheimr.....	128.54	561	277	54	114	5	1,011	2.83	7
Bothwell.....	349.60	1,119	253	120	1	14	1,507	13.42	73
Brampton.....	380.09	1,715	990	166	261	18	3,150	15.07	40
Brantford.....	610.24	2,478	1,002	190	15	15	3,700	57.33	148
Burlington.....	104.59	530	1,652	104	34	27	2,347	2.66	9
Cayuga.....	428.65	1,494	671	197	493	24	2,879	35.49	95
Chatham.....	286.18	1,250	1,041	142	.....	22	2,455	8.76	33
Clinton.....	481.82	1,553	631	185	314	6	2,689	36.26	155
Delaware.....	450.25	1,610	467	175	.....	4	2,256	5.09	13
Dorchester.....	191.00	764	334	90	3	11	1,202	1.25	6
Dundas.....	319.71	1,380	1,057	144	.....	11	2,592	14.11	39
Elmira.....	377.98	1,068	749	143	27	15	2,002	39.59	111
Essex.....	269.56	1,332	676	108	432	8	2,556	2.18	3
Exeter.....	217.35	811	413	106	628	5	1,963	10.88	39
Forest.....	291.99	1,059	123	69	417	5	1,673	7.88	29
Guelph.....	438.01	962	759	105	22	10	1,858	29.78	114
Harrow.....	220.01	1,155	541	90	1,002	4	2,792	1.82	8
Ingersoll.....	281.27	956	281	68	2	5	1,312	1.67	4
Kingsville.....	222.34	1,518	653	120	1,002	9	3,302	2.70	7
Kitchener.....	464.64	1,584	2,494	262	161	52	4,553	12.47	17
Listowel.....	465.68	1,669	518	182	1	7	2,377	24.16	137
London.....	268.53	1,007	3,348	215	3	13	4,586	2.77	3
Lucan.....	308.98	927	112	80	.....	2	1,121	32.36	61
Markham.....	337.05	1,359	2,431	190	747	23	4,750	6.77	39
Merlin.....	334.79	1,302	317	128	183	4	1,934	14.53	33
Mitchell.....	495.68	1,828	525	160	.....	9	2,522	11.01	45
Niagara.....	232.76	1,406	2,453	204	178	25	4,266	2.45	2
Norwich.....	195.50	879	217	56	.....	8	1,160	3.85	1
Oil Springs.....	288.28	1,000	167	109	1	5	1,282	12.43	50
Richmond Hill.....	276.35	989	2,705	198	269	26	4,187	6.60	49
Ridgetown.....	163.75	573	219	50	406	4	1,252	3.20	5
St. Thomas.....	274.02	1,075	1,127	133	10	6	2,351	2.41	17
Saltfleet.....	404.18	1,444	4,409	320	279	37	6,489	9.80	34
Sarnia.....	272.26	1,019	2,447	183	707	7	4,363	13.76	21
Simcoe.....	716.15	2,886	1,540	295	801	12	5,534	15.28	104
Stratford.....	275.40	1,061	396	102	.....	8	1,567	0.30	1
Sutton.....	245.53	645	930	136	1,948	9	3,668	13.61	68
Tillsonburg.....	232.84	984	566	117	.....	18	1,685	0.35	5
Wallaceburg.....	383.07	1,405	584	162	108	9	2,268	12.14	84
Welland.....	481.75	1,634	3,928	349	990	54	6,955	16.96	35
West Lorne.....	218.55	675	139	54	24	1	893	2.10	18
Windsor.....	194.05	759	4,722	300	.....	30	5,811	1.10	.....
Woodbridge.....	339.61	1,067	1,333	197	103	27	2,727	2.87	2
Woodstock.....	210.71	833	528	107	4	5	1,477	0.75	.....
Total Niagara div.	14,767.00	56,550	52,446	7,012	11,987	644	128,639	533.37	1,808

*Miles of line and total consumers, included in preceding columns.

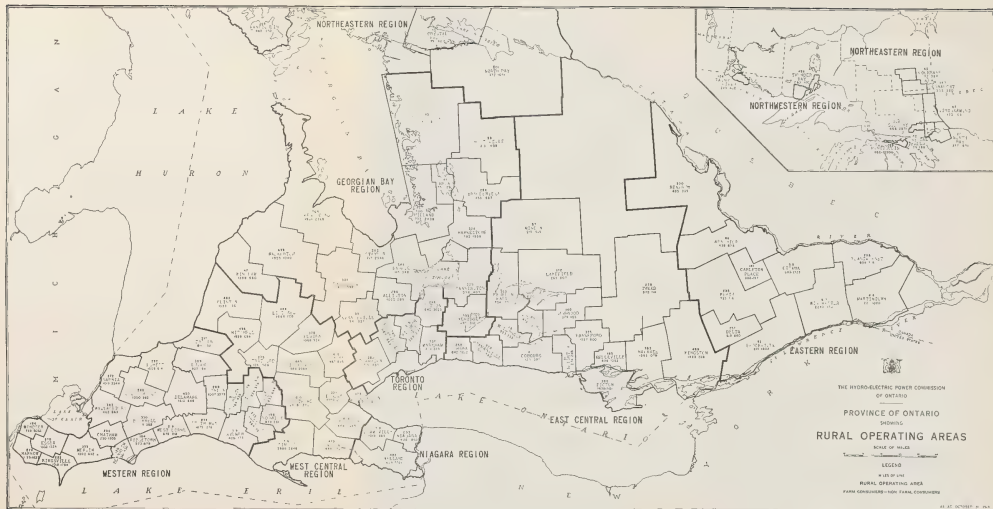
RURAL OPERATING AREAS
MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1948
Constructed and Under Construction

Rural operating area	Miles of line	Number of consumers						Not completed in 1948*	
		Farm	Ham-let	Com-mercial	Sum-mer	Power	Total	Miles	Con-sumers
Southern Ontario System— Georgian Bay Division									
Alliston.....	296.13	1,025	213	62	12	2	1,314	18.18	168
Bala.....	141.04	75	330	65	733	1	1,204	12.18	69
Barrie.....	385.80	1,115	1,108	184	2,186	3	4,596	11.28	65
Bracebridge.....	293.99	455	539	106	1,239	3	2,342	14.44	98
Cannington.....	229.40	534	356	100	945	2	1,937	11.75	39
Hawkestone.....	324.25	582	565	108	1,308	8	2,571	37.22	166
Huntsville.....	199.33	213	808	147	495	8	1,671	24.87	128
Midland.....	299.77	737	486	90	1,861	1	3,175	12.44	84
Orangeville.....	331.17	941	652	171	129	5	1,898	16.72	150
Owen Sound.....	765.41	1,901	1,206	334	823	5	4,269	122.01	465
Parry Sound.....	13.35	13	170	5	.....	.....	188	4.00	54
Shelburne.....	301.03	802	292	87	16	.....	1,197	3.33	119
Stayner.....	262.04	717	533	114	2,294	5	3,663	9.45	68
Uxbridge.....	399.39	1,095	738	165	602	5	2,605	28.89	148
Walkerton.....	698.99	1,955	561	225	251	3	2,995	114.69	418
Wingham.....	471.06	1,398	522	187	248	3	2,358	22.08	126
Total Georgian Bay division.....	5,412.15	13,558	9,079	2,150	13,142	54	37,983	463.53	2,365

**Southern Ontario System—
Eastern Ontario Division**

Arnprior.....	185.77	438	613	150	102	14	1,317	28.15	192
Belleville.....	184.78	626	1,198	136	19	9	1,988	2.17	4
Bowmanville.....	221.68	607	428	81	67	4	1,187	16.77	35
Brockville.....	520.68	1,615	1,093	305	429	5	3,447	50.79	284
Carleton Place.....	141.44	308	89	43	64	1	505	30.40	120
Cobourg.....	411.11	1,123	769	165	460	3	2,520	19.45	87
Delta.....	257.33	618	421	129	310	.....	1,478	70.47	251
Fenelon Falls.....	359.66	754	333	116	1,277	4	2,484	36.56	105
Frankford.....	324.74	1,027	624	126	146	4	1,927	7.90	71
Brighton.....	90.83	274	112	21	151	1	559	3.45	19
Kingston.....	499.25	1,425	1,374	318	380	9	3,506	83.77	357
Lakefield.....	171.84	265	336	95	374	2	1,072	9.61	165
Martintown.....	414.11	1,221	703	181	114	2	2,221	33.75	239
Millbrook.....	127.67	353	178	45	10	.....	586	27.59	70
Minden.....	183.20	215	817	177	530	2	1,741	25.16	186
Napanee.....	382.85	1,262	749	214	112	4	2,341	20.74	58
Norwood.....	148.00	379	177	37	268	3	864	21.60	139
Oshawa.....	267.81	842	3,295	237	274	16	4,664	4.10	6
Ottawa.....	516.35	1,693	1,632	326	134	31	3,816	19.04	238
Perth.....	297.58	735	340	107	266	3	1,451	89.81	263
Peterboro.....	179.83	472	723	97	304	7	1,603	9.04	60
Pictou.....	389.63	1,436	729	184	265	3	2,617	18.60	78
Plantagenet.....	266.48	854	570	130	11	3	1,568	25.80	217
Renfrew.....	299.51	685	916	205	75	9	1,890	62.61	380
Tweed.....	277.87	575	438	105	197	1	1,316	37.36	197
Winchester.....	610.10	2,299	851	283	30	6	3,469	4.18	88
Total Eastern Ontario division.....	7,730.10	22,101	19,508	4,013	6,369	140	52,137	758.87	3,909

*Miles of line and total consumers, included in preceding columns.



THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

PROVINCE OF ONTARIO
SHOWING
RURAL OPERATING AREAS

SCALE OF MILES

LEGEND

IN USE OF UNIT

RURAL OPERATING AREA

FARM COMMUNITIES - NON FARM COMMUNITIES

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1948

Constructed and Under Construction

Rural operating area	Miles of line	Number of consumers						Not completed in 1948*	
		Farm	Ham-let	Com-mercial	Sum-mer	Power	Total	Miles	Con-sumers

Thunder Bay System

Thunder Bay	499.22	1,080	1,071	134	276	11	2,572	83.16	438
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Northern Ontario Properties

Cochrane	45.20	107	365	19	491	27.12	491
Connaught	140.17	335	239	61	14	6	655	15.35	82
Crystal Falls	52.30	79	162	34	.....	.....	275	52.30	275
Manitoulin	268.52	462	829	251	162	8	1,712	42.15	146
North Bay	201.32	377	1,155	129	360	7	2,028	59.74	268
Rainy River	126.33	223	295	104	.....	3	625	55.09	221
Sudbury	202.32	496	2,471	170	220	10	3,367	63.50	459
Timiskaming	87.05	173	76	25	2	.....	276	56.26	209
Total Northern Ontario Properties.	1,123.21	2,252	5,592	793	758	34	9,429	371.51	2,151

SUMMARY

System	Miles of line	Number of consumers						Not completed in 1948*	
		Farm	Ham-let	Com-mercial	Sum-mer	Power	Total	Miles	Con-sumers
Southern Ontario Niagara division.	14,767.00	56,550	52,446	7,012	11,987	644	128,639	533.37	1,808
Georgian Bay division	5,412.15	13,558	9,079	2,150	13,142	54	37,983	463.53	2,365
Eastern Ontario division	7,730.10	22,101	19,508	4,013	6,369	146	52,137	758.87	3,909
Southern Ontario totals	27,909.25	92,209	81,033	13,175	31,498	844	218,759	1,755.77	8,082
Thunder Bay	499.22	1,080	1,071	134	276	11	2,572	83.16	438
Northern Ontario Properties	1,123.21	2,252	5,592	793	758	34	9,429	371.51	2,125
Total all systems . .	29,531.68	95,541	87,696	14,102	32,532	889	230,760	2,210.44	10,671

*Miles of line and total consumers, included in preceding columns.

SECTION V

PROMOTIONAL AND PUBLICITY SERVICES

PROMOTIONAL and publicity services during 1948 were directed principally to encouraging conservation of electricity and informing the public of power supply conditions.

Advertising and Publicity

An extensive program of advertising and publicity was carried out, using various media. A number of special announcements were published in 230 newspapers. This advertising reported progress on new developments, emphasized the need for conserving electricity, and informed the public of power regulations and other restrictive measures.

Radio played an important part in the power conservation program. A total of 550 broadcasts were given consisting of flash and spot announcements and regular weekly talks over Ontario stations. In co-operation with the Canadian Broadcasting Corporation, a Dominion-wide news feature broadcast was made from the Stewartville generating station on the occasion of its formal opening. A similar broadcast was made from the Westminster transformer and frequency-changer station when it was formally opened and was carried by a group of Ontario stations. Exterior street-car cards and billboard posters were also widely used throughout Hydro municipalities. Educational and direct-mail material was prepared for distribution to all classes of consumers throughout the Province.

Publication Services

During the year, regular news releases were made available to 230 daily, weekly and trade newspapers, covering power conservation, new construction program and other phases of Hydro activity. The Commission's monthly magazine "Hydro News" increased its circulation from 8,200 in January, to 12,300 at the end of the year. The circulation of Hydro Staff News, a publication issued every two months covering employee activities, increased from 2,600 to 7,350 during the same period. Special press trips were arranged to Hydro projects under construction, and to new plants opened during the year. Many publicity releases and special news articles were prepared and distributed to press, radio, trade journals and other groups. A column prepared by the Hydro Home Economist was mailed weekly to 168 daily and weekly newspapers.



HYDRO EDUCATIONAL PROGRAMS AND DISPLAYS
AROUSE INTEREST OF YOUNG ONTARIO STUDENTS

A number of booklets, folders, and direct-mail items were prepared for the use of the general public and various Commission departments. Folders were issued covering the Stewartville, Aguasabon, Ear Falls, Des Joachims, Polymer and Westminster stations. Display cards, leaflets, pay envelope inserts, direct-mail literature and educational folders were prepared for the electric power conservation program and special Commission activities. Special items were also prepared for the use of municipalities, regional offices, rural operating areas and other departments.

Field Operations

Regular contacts were maintained with municipalities and regional and rural offices, particularly in connection with the electric power conservation program. The support of many organizations was enlisted, including chambers of commerce, boards of trade, retail trade associations, the Canadian Manufacturers' Association, service clubs and other public-spirited groups. A conservation program was developed in co-operation with the Boy Scout and Girl Guide associations, representing 80,000 boys and girls in Ontario. Extensive use was made of sound trucks to broadcast conservation messages in Hydro municipalities. Special activities were undertaken through primary and secondary schools. A number of programs were launched and a large volume of direct-mail material was forwarded to industries, business organizations and all classes of Hydro consumers. Arrangements were made for visits of youth groups, school children and members of various organizations, to the Commission's Queenston generating station.

Motion Pictures

The Commission's conservation film, "Light With Father" was shown in Ontario theatres and before many interested groups. Hydro educational films were shown to a total of 3,566 organizations (service clubs, schools, churches, etc.) with an estimated attendance of 255,000 persons. Newsreel presentation of Commission developments placed in operation during 1948 was obtained through a Dominion-wide chain of theatres.

Exhibitions and Displays

Displays having an educational and public relationship character were prepared for a number of fairs, exhibitions and conventions. Suitable displays were arranged for the Canadian International Trade Fair, the Canadian National Exhibition, the International Plowing Match, the Royal Winter Fair, Guelph Industrial Fair, the Central Canada Exhibition, and various fall fairs. A feature of the year's display activities was the opening of several Hydro plants which were suitably decorated for the occasion. These included Ear Falls, Stewartville and Aguasabon generating stations, Polymer steam plant and Westminster frequency-changer and transformer station.

Merchandising and Lamp Sales

Merchandising activities were carried out in various Hydro municipalities. Educational and display material was provided as part of these activities. The sale of lamps to Hydro municipalities was maintained at a satisfactory level.

Electric Service League of Ontario

The Commission co-operated with the Electric Service League of Ontario in promoting the "adequate wiring" program. Adequate Wiring schools were held in northern Ontario and were well attended by representatives of Hydro municipal systems, contractors and dealers. Newspaper advertising and publicity material were arranged to advance "Red Seal" activities, the symbol of adequate wiring.

SECTION VI

ENGINEERING AND CONSTRUCTION

Post-war Construction Program Proceeds Favourably—Frequency-conversion Planning Well Advanced—Greatly Increased Transformation and Transmission Facilities

MEEETING THE increasing demands for power continues to be a major problem of the Commission. The completion of the Stewartville and Aguasabon power developments and the placing in service of facilities to receive purchased steam-electric power from the Polymer Corporation Limited provided some measure of relief.

Work on the larger hydro-electric power developments continued unabated. As the first of these developments could not be expected to be in service until 1950, it was decided to proceed with the installation of a number of relatively small steam-electric and Diesel-electric units, which will assist materially the supply of power in 1949. In order to meet the expected deficiencies in energy demands from available hydraulic resources, the construction of a major steam plant was authorized in the Windsor area, and preliminary investigations were conducted for a similar plant in the Toronto-Hamilton area.

There was a general improvement compared with the previous year, both in the supply of materials and in the availability of personnel to augment the engineering and construction staffs. This situation enabled the Commission to meet, with relatively few exceptions, the objectives of work scheduled. Additions to the staff were influenced by the reorganization of the engineering branch and the office space available. It was found necessary, in meeting the work load of the expanded program, to engage consultants to undertake the planning, engineering, design and supervision of construction for certain projects, including the Chenaux and Tunnel hydro-electric developments, the Windsor steam plant and certain of the semi-packaged steam units.

In a program of the present over-all magnitude it was also found desirable to employ outside contracting firms to construct certain developments, and important parts of others. Thus general contracting firms are responsible for the construction of Chenaux and Tunnel hydro-electric developments, the McConnell Lake dam of the Des Joachims development, the Windsor steam plant and some smaller projects.

Over-all supervision of the whole rests of course with the engineering staff of the Commission.

Work of the Construction Staff of the Commission

The recently completed developments at Stewartville and Aguasabon and the extension at Ear Falls were built by the Commission's construction division, and its staff is at present undertaking the construction of Des Joachims and La Cave hydro-electric developments on the Ottawa river and Pine Portage hydro-electric development on the Nipigon river. The aggregate ultimate capacity of these plants being constructed by the Commission's staff is 880,000 horsepower, as contrasted with 216,500 horsepower for the sites at Chenaux and Tunnel.

The work of the Construction staff of the Commission is therefore of great importance at the present time and a special account of some of its features is presented following this general introduction.

Planning

Details of the transmission lines required to deliver the power from the La Cave development into the system were studied and further investigations were made regarding changes in network to be incurred by the frequency-conversion program. Plans were also made for interconnecting the North-eastern region with the Southern Ontario system to meet the future power requirements of the region.

The requirements of the Windsor steam plant and its integration into the system were studied. Alternative locations for the emergency steam-power units were considered with relation to available steam sources and as aids to frequency conversion.

In connection with frequency standardization, area plans were drawn up, outlining the sequence of supply facilities for the Commission's works to be made available in the areas scheduled for conversion in 1949 and 1950. Plans were prepared recommending a number of new transformer stations and increases to existing stations fitting them in where necessary with the frequency conversion area plans.

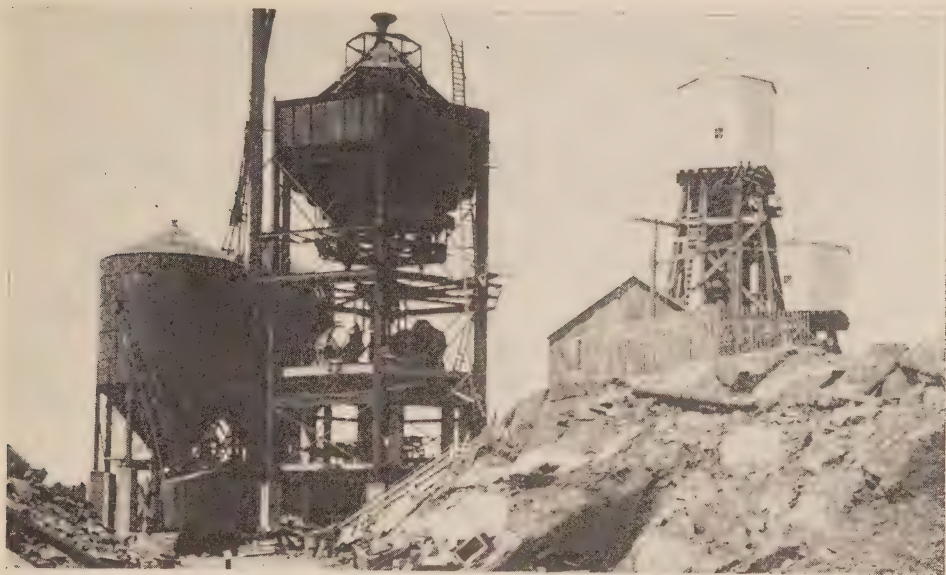
A fundamental study was made of the service voltage standards which led to recommendations for changes in existing transformer ratios, the application of voltage regulators and the limits of voltage spread for domestic and industrial customers.

The A.C. network analyzer was used extensively throughout the year for the planning studies and, as in former years, was made available to other Canadian utilities on a rental basis.

Frequency Conversion

In accordance with the decision to standardize the frequency of the Niagara Division of the Southern Ontario system at 60 cycles, a program was prepared and equipment assembled to convert the first of the Commission's stations from 25 cycle to 60 cycle.

The need for temporary substations and other facilities necessary to provide power to accomplish conversion is being studied.



AUTOMATIC CONCRETE MIXING PLANT AT DES JOACHIMS DEVELOPMENT

This plant has a rated capacity of 160 cubic yards of concrete per hour. This output has been substantially exceeded on many occasions.
It is the largest of three similar plants



CONTROL BOARD FOR CONCRETE MIXING UNIT

By means of push-button control concrete conforming to any particular specification can be produced

The conversion of the first areas to be changed from 25 to 60 cycle will be commenced in 1949.

Rural Construction

During 1948 approximately 3,550 miles of new primary line were built and about 26,000 new consumers served.

CONSTRUCTION STAFF ACTIVITIES AND EQUIPMENT

The activities of the Commission's Construction division reached an all-time peak in 1948, both in man-power and expenditures. The employees on Construction payrolls comprised almost half the Commission's total staff. Expenditures for wages, salaries and plant rentals during 1948 amounted to some twenty-four million dollars.

The Commission owns a substantial and varied stock of construction plant which includes many of the latest and most effective models in each particular type. In the mechanically propelled and wheeled group are such large items as 2½ cubic-yard power shovels and drag lines, 30-ton dump trucks, 31-ton tractors and bulldozers and 65-ton floats. In conjunction with these the use of 2 cubic-yard concrete mixers, 18-inch unwatering pumps, 2,700 cubic feet per minute air compressors, 48-inch diameter pole-hole digging machines, a 2,800-foot span, 20-ton cableway and smaller equipment of great variety, enables the Commission to undertake work of great magnitude and of a widely diversified character both expeditiously and economically.

Special mention should be made of three noteworthy items of equipment which the Commission has used since 1946. These are its automatic concrete mixing plants of which the largest, with a rated capacity of 160 cubic yards of concrete per hour, is in use at Des Joachims development. These plants are virtually concrete factories into which raw materials are fed at one end and from which, through push-button control exercised by an operator at a switchboard, the finished product is delivered to a system of belts or other facilities which transport it to the forms. Concrete conforming to any particular specification can be produced and varied instantaneously at the control board to meet special needs.

In the concrete distribution systems much use has been made of Bailey bridging obtained from surplus army stocks and adapted for use in towers up to 150 feet in height; for "A" frame structures of 200-foot span over aggregate stock piles; for conventional bridges in spans up to 170 feet and carrying loads up to 65 tons. Use of steel in this form is being experimented with for high form caging in place of the timber framing normally used for this purpose.

In keeping with present-day trends the Commission has done much through continued application of progressive measures towards improving living conditions for the residents in its camps. On the larger projects these camps are virtually small towns with resident populations up to 2,000, with power, light, water and sewage installations, with modern well-staffed and well-equipped hospitals and with adequate facilities for indoor and outdoor recreation and worship.

One of the most important features in connection with the operation of its camps, one which is spectacular in its magnitude, is that of feeding its thousands of employees. It is probable that, in the construction field at least, the Commission is the largest individual caterer in the Dominion. Its dining halls, operating cafeteria style, seat up to 600 men. Its dishwashing and sterilizing equipment handles up to 4,000 pieces of tableware an hour. At the height of its 1948 activities it was feeding over 8,000 men. During 1948 an average of almost 45,000 pounds of food stuffs were purchased, processed and consumed in the camps each day, in addition to the hundreds of gallons of soup, milk, tea and coffee. A total of more than 5½ million meals were served in the year.

The dining room and camp staffs comprise 648 employees, 540 men and 108 women. The majority of the latter are waitresses. Many more women are employed in the field offices as stenographers, clerks and telephone operators. The employment of women to such an extent is a comparatively recent development. It has proved most successful in raising the whole tone of the camps, in helping to reduce the percentage of turnover and in attracting a desirable type of employee.

PROGRESS ON NEW POWER DEVELOPMENTS

During 1948, construction proceeded on seven major hydro-electric developments and two of these, namely those at Stewartville on the Madawaska river and at Aguasabon in the Thunder Bay area, reached the operating stage. In addition to these, an extension to the Ear Falls power plant on the English river was completed by the installation of the fourth generating unit.

The following paragraphs describe, in some detail, the developments completed, summarize the main features of the developments under construction, show the work performed in 1948 and the state of progress at December 31.

STEWARTVILLE DEVELOPMENT—SOUTHERN ONTARIO SYSTEM

The second major hydro-electric development of the five undertaken by the Commission for the Southern Ontario system came into service on September 21, 1948 when the Stewartville development first supplied power to the system. The second unit was in service on September 28, and the third on October 28, providing in all an additional installed capacity of 60,000 kilowatts.

The plant is situated on the Madawaska river about eight miles southwest of Arnprior and about sixteen miles downstream from Barrett Chute generating station, which is in many respects similar to it.* It is the second of six projects for the development of the potential of that part of the Madawaska river between Kamaniskeg lake and its outlet into the Ottawa river at Arnprior.

*For description consult Thirty-fifth Annual Report, 1942, page 61.

The development comprises a gravity type concrete dam approximately 1,300 feet long with a maximum height of 206 feet, in which the intake and sluiceway sections are incorporated; a floodwater channel below the sluiceways; the powerhouse immediately downstream from the dam on the north bank of the river and a tailrace channel excavated in the river bed as far as the Stewartville bridge 2,200 feet downstream. Bridges crossing the river at Burnstown and Springtown some distance upstream were reconstructed and raised to a higher level. Floodwaters discharged through the sluiceways pass into a high-water channel with reinforced concrete paving and training walls on either side directing the flow into the outlet channel below the dewatering tunnel whence it flows into the tailrace channel after much of its energy has been dissipated by massive baffle piers.

A general plan of the development accompanies this description.

Dewatering the Site

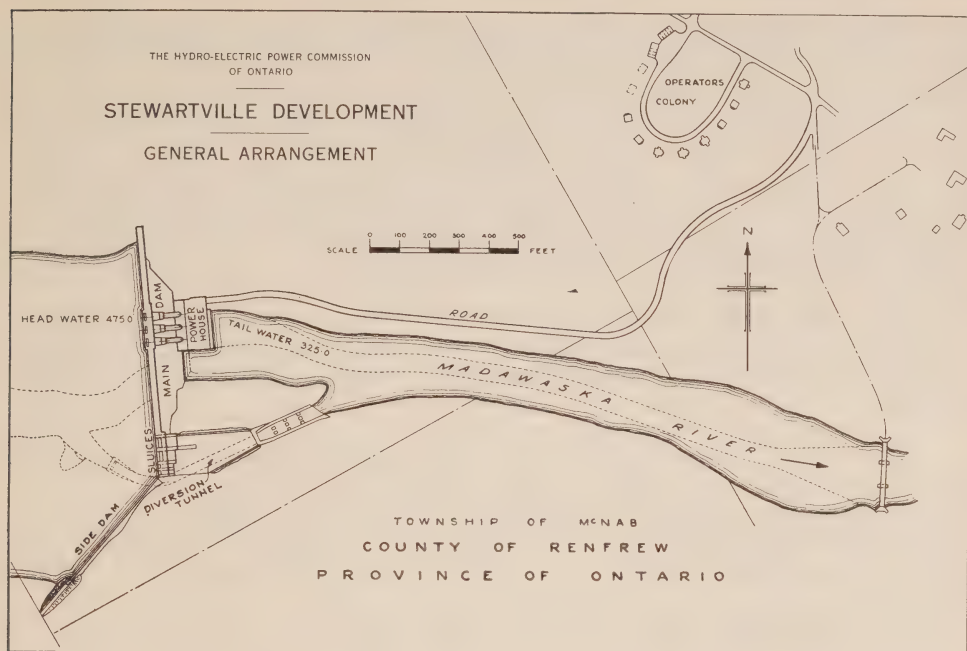
To dewater the site of the dam and powerhouse a horseshoe-shaped tunnel, 30 feet high and 30 feet wide and about 500 feet long, was driven under the rock bluff on the south side of the river. Rock-filled timber-crib cofferdams were then built across the river channel above and below the limits of the development and the river flow diverted through the tunnel. As the whole of the flood flow of the river had to pass through the tunnel, massive baffle piers were built in the rock cut between the tunnel outlet and the river to dissipate the energy in the swiftly flowing water. The baffle piers perform the same function in the completed development when floodwaters are discharged through the sluiceways. On completion of the dam, the tunnel entrance was closed by steel gates and a heavy concrete plug was poured into the tunnel behind the gates.

The Dam

The main dam is divided into two separate parts: the main section which runs from the north bank across the river to the sluiceways and the wing dam which extends diagonally upstream from the south end of the sluiceways. There is also a low earth dam a short distance south of the wing dam. The upstream face of the main section of the dam is vertical for a distance of 60 feet below the deck and below that has an upstream batter of 1 to 12. On the downstream side, the face is vertical for 18 feet and then slopes downstream on an 8.5 to 12 batter. The wing dam which is a standard gravity section with a 3-foot top and an 8 to 12 sloping face on the downstream side, has a maximum height of 30 feet.

Vertical construction joints in the main section of the dam are 38 to 42 feet apart and horizontal construction joints are at 50-foot intervals, thus forming blocks approximately 40 feet wide and 50 feet high in each of which the concrete was placed in one continuous pour; however the height of these blocks was limited in some cases to 20 or 25 feet.

Steel water-stops 16 inches wide and $\frac{1}{2}$ inch thick are placed in both the horizontal and vertical construction joints near the upstream face. Half the width of the water-stop was embedded in the first block of concrete poured, and before the adjacent block was poured the entire vertical face of the first



pour and the exposed half of the vertical water stop were treated with a heavy coat of mastic. Semi-circular drains of $7\frac{1}{2}$ inch radius are located directly downstream from the water-stops.

The dam is provided with an inspection tunnel and a horizontal tunnel running from the powerhouse to an elevator which travels to the deck of the dam at the north side of the intake structure.

Headworks and Penstocks

The headworks section consists of three separate intakes, one for each unit. Water from the forebay enters each intake through two openings which merge before reaching the penstock. Steel trash racks are incorporated at the upstream face of the headworks, and headgates controlled by separate motor driven hoists are provided for each intake.

The penstocks are 14 feet in diameter with a thickness varying from $\frac{1}{2}$ inch at the top to $\frac{5}{8}$ inch at the bottom. They are encased in concrete envelopes having a minimum thickness of about 18 inches. The purpose of the concrete envelope is to protect the steel, eliminate periodical maintenance and prevent expansion and contraction of the penstocks due to large variations in temperature.

Powerhouse

The powerhouse is a steel and concrete structure 174 feet by 74 feet 6 inches located close to the base of the dam. A pleasing relief has been secured in the great expanse of concrete on the face of the powerhouse by using striated plywood in the forms, alternate panels having the striations placed horizontally and vertically.

Three single-runner, vertical-shaft, Francis-type turbines, fabricated by Canadian Allis-Chalmers Company, each with a rated capacity of 28,000 horsepower under a head of 150 feet, at a speed of 163.6 revolutions per minute controlled by Woodward governors, are supplied through steel scroll cases connected to the penstocks. These turbines drive 3-phase, 60-cycle, 13,200-volt revolving field generators each of 24,000 kilovolt-ampere capacity, 85 per cent power factor. They were supplied by Canadian General Electric Company. Water discharged from the turbines passes by concrete elbow-type draft tubes to the tailrace below the powerhouse.

The powerhouse is equipped with a travelling crane having a capacity of 120 tons and there is an erection bay at the north end of the powerhouse, to provide for the erection and dismantling of turbines, generators and transformers.

The control room is located on the main generator floor of the powerhouse and is provided with a lighting system which gives the operator a clear view of the instruments on the switchboard unaffected by reflected light. The floor above the control room extending the full length of the powerhouse provides accommodation for offices, battery room and storerooms.

The transformer bank is placed in the area between the face of the dam and the rear wall of the powerhouse. The main transformers are three in number rated at 27,000 kilovolt-amperes, 3-phase, and step up generator voltage from 13,200 to 110,000 volts for transmission to Barrett Chute.

Channel Improvements

The raised water level at the dam creates a forebay with a depth of about 150 feet at the dam and floods out the rapids and natural gradient in the river for about 13 miles upstream. The flooded area covers about 1,100 acres and was cleared before the closure of the dewatering tunnel.

Downstream from the powerhouse a tailrace channel was excavated in the bed of the river for a distance of 2,200 feet, the completed channel having a bottom width of 60 feet, a depth of 15 feet and side slopes of 2 to 1.

Bridges

Two highway bridges crossing the river upstream from the dam have been rebuilt and raised to provide the necessary clearance above the new and higher water levels in that part of the river. The first of these at Burnstown, four miles upstream from the dam, is a new bridge having an overall length of 620 feet comprising seven 84-foot steel spans and one shorter span supported on concrete piers and abutments. The water level is now about 40 feet higher than under natural conditions and the concrete piers supporting the bridge are 60 feet in height from the pier foundations to the underside of the steel spans.

The Springtown bridge a few miles upstream consisting of two steel spans with a timber deck has been raised about 10 feet. New concrete abutments and a centre pier have been constructed to support the bridge in its new position.

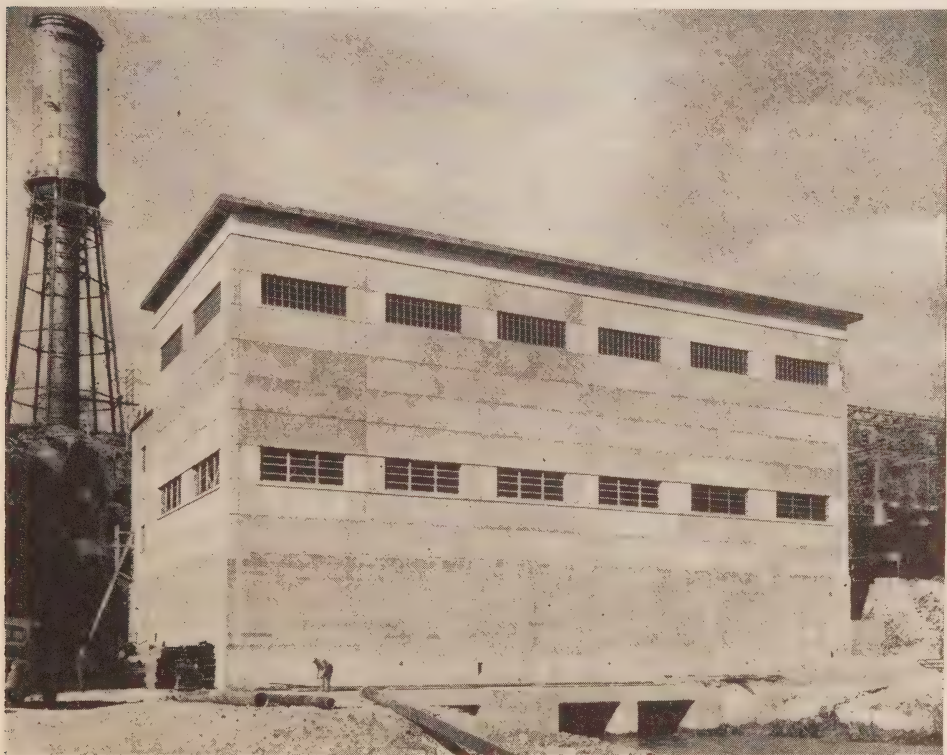
Living quarters for the operators are provided in a group of houses on high level ground north of the river about half-a-mile from the powerhouse.

Capacity and efficiency tests made on all three units showed that all turbine units exceeded the guarantees as to capacity and efficiency.

AGUASABON DEVELOPMENT—THUNDER BAY SYSTEM

The Aguasabon hydro-electric development, where unit No. 2 came into service on October 19 and unit No. 1 on December 12, provides an important block of additional power capacity to the generating resources of the Thunder Bay system in northwestern Ontario and supplies energy for a new industrial project close to the power site. It is connected by a transmission line about 70 miles long to the plants on the Nipigon river and, along with these, provides a total generating capacity for the Thunder Bay system in excess of 200,000 horsepower. There are several features of exceptional interest in the layout and design of this development.

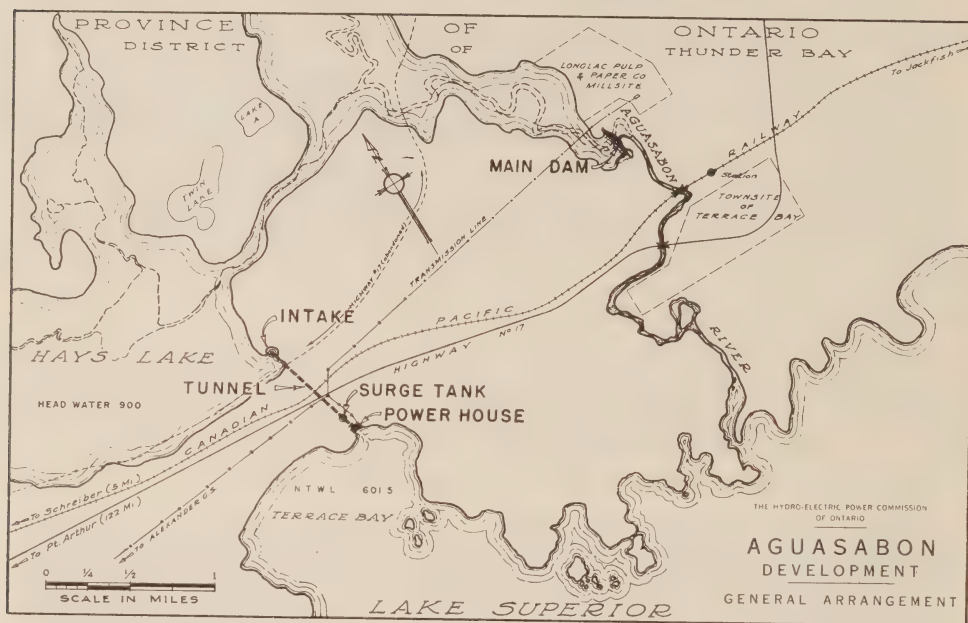
When the Long Lake diversion project was completed in 1938, waters diverted from the Kenogami river were directed southerly to the Great Lakes by way of the Aguasabon river, increasing the average flow from 300 cubic feet per second to 1,750 cubic feet per second, thus adding materially to the potentiality of power sites on the river. One of the purposes of the Long Lake



AGUASABON POWERHOUSE AND SURGE TANK

Installed capacity 40,000 kilowatts (53,000 horsepower) in two units.
Head 290 feet. In service October 19, 1948

diversion was to enable the rich pulpwood supplies along the Kenogami river to be conveyed southerly by water carriage. This has resulted in the construction of a large pulp mill beside the forebay of the new power development which provides the power required for operation of the pulp mill.



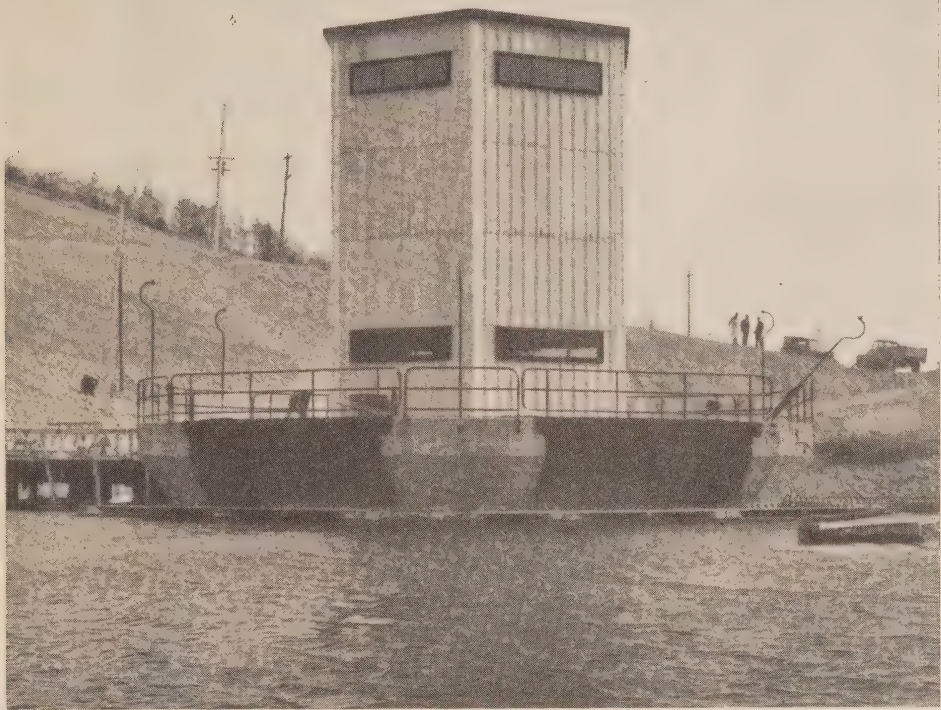
General Description of Development

The Aguasabon river flows into lake Superior about seven miles east of Schreiber. In the last three miles of its course there is a steep gradient with numerous rapids and at Aguasabon Falls, one sharp drop. The main dam situated about $2\frac{1}{2}$ miles from the mouth of the river raises the water level at the dam site about 70 feet above its natural level and to a height of 297 feet above the level of lake Superior. The raised water level above the dam creates slackwater for twelve miles above the dam and also floods a depression extending westerly several miles along a small tributary creating a new lake, now known as Hays lake, separated from lake Superior by a narrow rock ridge roughly parallel with the shore of the lake.

The intake is located on the shore of Hays lake $2\frac{1}{2}$ miles west of the main dam. Here a vertical shaft was sunk and a tunnel driven under the rock ridge emerging a few hundred feet from the shore of Terrace Bay on lake Superior. From the tunnel exit, a penstock leads to the powerhouse, with branches leading to each of the two turbine units. A differential surge tank is erected on the high ground near the downstream end of the tunnel. Relocation of Provincial Highway No. 17 for several miles and the construction of a new bridge over the river were necessitated as the former course of the highway was, in part, through areas now flooded.

The Main Dam

The main dam is a concrete structure 1,041 feet long with a maximum height of 110 feet with crest at elevation 905. Commencing on high ground



AGUASABON POWER DEVELOPMENT—HEXAGONAL INTAKE STRUCTURE
On shore of Hays Lake

at the left bank of the river, there is a standard bulkhead section 121 feet long with a top width of 7 feet and a maximum height of 40 feet followed by the main bulkhead section having a top width of 12 feet, a vertical face for 40 feet from the deck, below which the face has a batter of 1 in 12 while the downstream face has a slope of $8\frac{1}{2}$ to 12. This main bulkhead section extends for a distance of 540 feet to the sluiceway section, and continues beyond it for 80 feet to a log chute entrance. Beyond the log chute a low bulkhead section of standard design continues to the end of the main section of the dam.

The sluiceway section, 66 feet long, contains 3 stop-log sluices each 14 feet wide with sills at elevation 884 for flood water discharge, and there is an emergency valve port set at elevation 854 to the right of the sluiceways.

During the construction of the dam the river flowed through two ports 14 feet wide by 20 feet high at the base of the dam under the sluiceway section. These discharged into a channel curving to the left to enter the river at an acute angle about 600 feet downstream. On completion of the dam, steel gates were used to close the ports which were then filled with concrete.

Bed rock beyond the right bank of the river does not rise as high as the regulated water level and special provisions were made to provide security and freedom from seepage through the overburden in this region. A standard

gravity section extends from the end of the main dam and in the same general direction a distance of 290 feet. Earth fill is placed on both sides of this. Extending upstream also from the end of the main dam roughly parallel with the river channel, an earth fill extends to high ground over 1,200 feet upstream. The whole face of this toward the river is sealed with a silt blanket 3 feet thick which extends over the natural ground surface and down the old river bank to the original water level.

Intake and Tunnel

The intake is located close to the shore of Hays lake and is of the radial type with six entrance ports converging toward a vertical central shaft. A single vertical cylindrical gate 17 feet 6 inches diameter is provided to shut off flow to the shaft and steel racks are placed near the outer ends of the piers forming the six ports. A hexagonal housing built on the piers contains the gate hoist. The intake and equipment have functioned most satisfactorily.

Directly below the intake a vertical concrete-lined shaft 15 feet diameter and over two hundred feet deep was excavated to join the tunnel which was driven from the downstream end. The concrete-lined tunnel, also with a finished diameter of 15 feet, is 3,468 feet in length from the centre line of the intake shaft to the portal and has a grade of one-half of one per cent. The lower portion of about 395 feet is lined with steel as noted below.

Three hundred and fifty-one feet upstream from the tunnel portal, a second vertical shaft was excavated to form part of the riser to the surge tank. This has a plate steel lining having a diameter of 15 feet, concrete being placed between the steel and rock face of the shaft. The shaft itself is 94 feet deep and the surge tank, supported on structural steel bents, rises to a height of 240 feet above the ground surface. The surge tank is 92 feet high, has a diameter of 32 feet, and an internal riser 13 feet 6 inches diameter. The riser above ground level and the bowl and barrel of the tank are heavily lagged with insulation to prevent freezing.

The steel lining of the riser is joined to the steel lining in the lower part of the tunnel where the rock cover is not considered sufficiently heavy to withstand the high internal pressure. Pressure cells have been installed at various points in this part of the tunnel and the riser, to enable observations to be made on the rise in pressure due to shutdown of the turbines.

Forty-five feet after it emerges from the tunnel portal the steel penstock divides into two branches which lead to the scroll cases of the two turbines. A concrete envelope surrounds the penstock as far as the powerhouse wall.

Power House and Equipment

The power house is a steel and concrete structure 108 feet by 68 feet 4 inches. It houses, in the substructure, two Francis-type vertical turbines rated at 27,500 horsepower under a head of 290 feet at a speed of 257 revolutions per minute. These were made by The Dominion Engineering Company and are equipped with Woodward governors. Immediately upstream from the entrance to each scroll case an hydraulically operated butterfly valve is installed. The scroll cases are of the conventional type of plate steel encased in the concrete of the substructure. The elbow type draft tubes discharge into a short tailrace at lake Superior level.

The generators, built by Canadian Westinghouse Company, are rated at 22,500 kilovolt-amperes at 90 per cent power factor, 13,800 volts, 60 cycles.

A transformer bank, consisting of 4 single-phase transformers rated at 15,000 kilovolt-amperes, 13,800/138,000 volts is located immediately to the east of the powerhouse.

Reference has already been made to the pulp mill of the Longlac Pulp and Paper Company erected beside the head pond of the development. Pulpwood supplies are received from the Kenogami river area above Long lake and are delivered by water carriage to the shore of the head pond beside the pulp mill. The townsite of Terrace Bay was laid out along the river about a mile south of the mill site and a completely equipped and serviced town has been built there, special attention being paid to architectural design of buildings and landscaping of the area.



EAR FALLS GENERATING STATION

Dam and powerhouse from downstream, as enlarged for fourth unit

EAR FALLS GENERATING STATION—ENGLISH RIVER

Capacity—Fourth unit 5,600 kilowatts (7,500 horsepower)

Total capacity 19,000 kilowatts (25,000 horsepower)

Head—36 feet

Placed in service—June 29, 1948

The installation of the fourth unit at the Ear Falls plant completes this development of which the first unit, having a capacity of 5,000 horsepower, came into service in 1929. The development now has a total capacity of 19,000 kilowatts in four generating units. The plant has a well-regulated water supply as lac Seul has sufficient capacity to completely regulate the flow over a series of two or three successive dry years.

The fourth unit is similar in size and installation to the third unit which was described in the Annual Report for 1939.

DES JOACHIMS GENERATING STATION—OTTAWA RIVER

Capacity—358,000 kilowatts (480,000 horsepower)

Units—eight

Head—130 feet

In service—six units in 1950, two units in 1951

This is the largest power development in progress at the present time and involves construction and remedial features both extensive and varied—in some instances far removed from the immediate locality of the powerhouse and dams. Among these are the relocation and construction of many miles of Highway No. 17 and of the main line of the Canadian Pacific Railway, the raising of the railway bridge across the Ottawa river at Mattawa by several feet, and clearing of large areas of lands on both banks of the river which will be flooded when the river level is raised by the dam.

The main dam spans the Ottawa river at Des Joachims rapids about 40 miles upstream from Pembroke and the powerhouse is located on the main channel. From the powerhouse a tailrace channel about 7,000 feet long and 175 feet wide will be excavated to the Deep River section of the Ottawa river to regain a fall of about 25 feet in the rapids below the dam site. About two and one-half miles to the northwest of the main dam, a control dam known as the McConnell Lake dam is being constructed in a shallow depression near the head of McConnell lake. Flood water diverted from the channel of the Ottawa river by the main dam will pass the control dam and flow into McConnell lake and thence by an excavated channel into the Deep River section near the outlet of the tailrace.

Work progressed rapidly during 1948 and at the end of the year the diversion of Highway No. 17 was completed and in use, one of the railway diversions was nearing completion and the other well advanced. About 40 per cent of the concrete had been poured in the main dam, 30 per cent in the McConnell Lake dam, and about 11 per cent in the powerhouse.

It is expected that closure of the main dam will commence in June or July, 1949 and of the McConnell Lake dam in January, 1950.

CHENAUX GENERATING STATION—OTTAWA RIVER

Capacity—119,000 kilowatts (160,000 horsepower)

Units—eight

Head—40 feet

In service—six units in January 1951, two units in 1952.

This development, eight miles north of Renfrew and a few miles above Chats lake, will develop the natural fall in the rapids between the lower end of Calumet island and the dam site which is adjacent to the village of Portage du Fort. The powerhouse will be placed in the main channel of the river with a sluiceway section of the dam to the left discharging through a flood discharge channel being excavated across Limerick island. A second dam, also equipped with sluiceways, will close the Portage du Fort channel between Limerick island and the Quebec shore.

The design of the development is being carried out by H. G. Acres and Company, Limited, under the general supervision of the Commission's engineering staff. The general contract for the construction of the development has been awarded to the Pentagon Construction Company and work is progressing rapidly.

At the end of the year, the excavation for the dam was almost completed, 75 per cent of the channel across Limerick island was excavated, and about 40 per cent of the concrete for the Limerick Island dam had been poured. About 1,100 men were employed on the job.

LA CAVE GENERATING STATION—OTTAWA RIVER

Initial capacity—six units, 135,000 kilowatts (180,000 horsepower)

Ultimate capacity—eight units, 180,000 kilowatts (240,000 horsepower)

Head—72 feet

In service—six units in January 1952, two units in 1953.

This, the third major power development under construction on the Ottawa river, is situated about five miles upstream from Mattawa and will



LA CAVE POWER DEVELOPMENT, OTTAWA RIVER
Site of main dam

concentrate at the dam site most of the fall in the river surface from that point upstream to the foot of the Temiskaming dam. The main dam, approximately 2,500 feet long, will extend in an almost straight line across the river at La Cave rapids, the powerhouse forming an integral part of the dam on the Ontario shore with sluiceways extending from the powerhouse toward the Quebec shore. The relocation of about 38 miles of the Canadian Pacific Railway line is required to remove it from its present situation close to the shore on the Quebec side to higher ground above the water levels that will exist after completion of the dam.

At the end of the year work was progressing on the construction of a road giving access to the site, and the construction of camp buildings and surveys for the relocation of the railway were proceeding.

PINE PORTAGE GENERATING STATION—NIPIGON RIVER

Initial capacity—two units 60,000 kilowatts (80,000 horsepower)

Ultimate capacity—four units 120,000 kilowatts (160,000 horsepower)

Head—105 feet

In service—two units in December 1950

This site is the third and last one available on the Nipigon river and with the completion of the development, 240 feet of the total fall of 250 feet from lake Nipigon to lake Superior will be in use at the three generating plants—Pine Portage, Cameron Falls and Alexander. Almost perfect regulation of the flow of the river is possible because of the enormous storage capacity of lake Nipigon. The flow of the river and the normal operating capacity of the plants is also augmented by the flow diverted southerly from the Ogoki river.

At the beginning of the year, the construction of the access road was proceeding and clearing and grading commenced very soon thereafter. By August the excavation for the dam was practically completed and the foundation was poured in October. By the end of the year the diversion channel was completed, formwork for parts of the main dam had been erected, and concrete pouring had commenced.

Special provision for the passage of large timber drives must be made at this development and to investigate and develop a satisfactory procedure for these and to solve other problems in connection with regulation of flow and levels, a model of the Virgin Falls dam and the adjacent channels has been built in the hydraulic laboratory of the University of Toronto.

TUNNEL GENERATING STATION—MISSISSAGI RIVER

Capacity—42,000 kilowatts (56,500 horsepower)

Units—two units

Head—210 feet

In service—December 1949

The dam for this development is being built in a deep gorge or canyon on the Mississagi river, known as The Tunnel situated about 15 miles north

of Thessalon. To permit construction of the dam, the river was diverted through a tunnel 900 feet long driven through the rock on the right bank of the river. The powerhouse will be placed at the foot of the dam and a tailrace will be excavated in the river-bed for a distance of about 1,800 feet downstream.

To regulate the flow of the river, a storage reservoir having a capacity of 300,000 acre-feet is being constructed at Rocky Island lake, 50 miles upstream.

Excavation of the diversion tunnel commenced early in the year and was almost completed by May, 1948. Serious forest fires in the region in June somewhat retarded work. By December the tunnel portal was completed, about half of the concrete in the side dam was poured, and forms for the main dam were being erected. At this time also, camps were being erected and plant assembled for the construction of the storage dam at Rocky Island lake.

WINDSOR STEAM PLANT

Initial capacity—120,000 kilowatts (160,000 horsepower)

Ultimate capacity—240,000 kilowatts (320,000 horsepower)

In service—First unit in September 1951
Second unit in November 1951

The construction of a steam-electric generating station, the first major steam station owned by the Commission, was authorized in 1948. The firm of H. G. Acres and Co. has been retained as consultants in the design and construction of this plant.

A site on the Detroit river near Windsor was secured and orders have been placed for two 60,000-kilowatt steam-turbine generators and associated equipment. Power will be generated at 60 cycles.

TRANSFORMER STATIONS AND TRANSMISSION LINES

The increased generating facilities recently made available, or now under construction, brought about corresponding development of transformer stations and transmission lines. Activities in this connection are very numerous, but most can be segregated into one or other of five main geographic groups. Each group involves a combination of transformer stations and important transmission lines of substantial length, and in three groups frequency-changers are provided. During 1948 progress was as follows:

SOUTHWESTERN ONTARIO

The year 1948 saw the completion of the first stage of a scheme for strengthening the transmission network in southwestern Ontario between Sarnia and the vicinity of Niagara Falls, comprising a number of projects.

Sixty-Cycle Power Supply from Polymer Corporation at Sarnia

In order to take delivery of the 22,500 kilowatts of 60-cycle power contracted for from the Polymer Corporation and generated at its steam plant at Sarnia, the following facilities were placed in service on November 1, 1948:

- (a) A 25,000-kva transformer station at Polymer stepping up from 13,200 volts to 26,400 volts,
- (b) Three-quarters of a mile of 26,400-volt transmission line, to
- (c) A 25,000-kva transformer station, stepping up from 26,400 volts to 115,000 volts,
- (d) Sixty-six miles of 115,000-volt line from the above station to Westminster frequency-changer and transformer station.

Westminster Frequency-Changer and Transformer Station

This station, situated a short distance south of London, provides a tie between the 60-cycle power obtained from Sarnia and the 25-cycle system of the Southern Ontario system.

On November 1, 1948, one 25,000-kva frequency-changer, one 25,000-kva, 60-cycle, 13,800/115,000-volt transformer and one 25,000-kva, 25-cycle, 13,800/115,000-volt transformer were placed in service. Arrangements are under way for the installation of two additional frequency-changers of the same capacity with the necessary transformation facilities, a total frequency-changer capacity of 75,000 kva.

The 230,000-volt line from Allanburg, which is 103 miles long, was placed in service at 115,000 volts early in December, 1948. At Allanburg transformer station, the installation of the station equipment, including two 75,000-kva, 115,000-volt voltage regulators, is proceeding.

TORONTO AND HAMILTON AREAS**Kipling Transformer Station**

Kipling transformer station, in Etobicoke township to the west of Toronto, is designed as a major terminal station for the transformation and distribution in the Toronto area of power received from the Ottawa river and other eastern sources at 230,000-volts. It is designed for a probable ultimate transformer capacity of 440,000 kva and a synchronous-condenser capacity of 200,000 kva.

The first stage in the construction of the station, consisting of switching equipment for seven 115,000-volt circuits, was placed in service in January, 1948. Construction is proceeding.

Masson-Kipling Line

A 230,000-volt line from the MacLaren-Quebec Power Company at Masson to Kipling transformer station was placed in service between Masson and Leaside junction, near Leaside transformer station, in December, 1948. The portion between Leaside junction and Kipling transformer station should be completed early in 1949. The total length of the line is 251 miles.



WESTMINSTER FREQUENCY-CHANGER AND TRANSFORMER STATION
25-cycle switching area

This line is the fifth 230,000-volt circuit built for the transmission of 25-cycle power from the Ottawa river and the Province of Quebec to the Niagara division.

Des Joachims Lines

In order to transmit Des Joachims power to the Southern Ontario area, it is necessary to build about 800 circuit miles of 230,000-volt lines from the generating station to the various terminal stations in southern Ontario. The right-of-way for one line has been surveyed from Des Joachims to Kipling transformer station and has been cleared for about 125 miles. The line from Des Joachims to Burlington transformer station has been surveyed for 231 miles and the erection of towers has commenced on both lines.

EASTERN ONTARIO AND GEORGIAN BAY AREAS

Scarborough Frequency-Changer and Transformer Station

A second 25,000-kva, 25/60-cycle frequency-changer is being installed in Scarborough frequency-changer and transformer station and is expected to be placed in service in May, 1949.

Work is also progressing on the installation of an 8,000-kva, 115,000/-26,400-volt transformer and associated equipment for the supply of 60-cycle power to the suburban area east of the city of Toronto. This is scheduled for service in January, 1949.

Additional Power for Owen Sound

In July 1948 a new 115,000/44,000-volt transformer station with a capacity of 15,000 kva was placed in service in Owen Sound.

The station is supplied by a new 115,000-volt transmission line from Barrie transformer station, a distance of 68 miles. The line also was placed in service in July 1948.

Stewartville and Barrett Chute Interconnected

In order to connect the new Stewartville development to the 115,000-volt system, 18 miles of 115,000-volt transmission line were built from Stewartville to Barrett Chute. The line was placed in service in September 1948.

THUNDER BAY SYSTEM**Pine Portage to Fort William-Port Arthur Lines**

Three new lines are under construction to transmit power from the new Pine Portage development to the Port Arthur-Fort William area.

Surveys for a 115,000-volt steel-tower line, 90 miles long, from Pine Portage to Fort William were commenced. The right-of-way for a new 115,000-volt steel-tower line from Alexander development to Port Arthur, 67 miles long, has been surveyed and a 13-mile, 115,000-volt line from Pine Portage to Alexander was completed and is in service at 44,000 volts to supply construction power to Pine Portage.

NORTHERN ONTARIO PROPERTIES

In northern Ontario the chief extensions to transmission facilities are associated with the new Tunnel development.

Sudbury Frequency-Changer Station and Transmission Line from Tunnel Development

In order to provide a tie between the 60-cycle Tunnel supply and the 25-cycle Abitibi supply in the Sudbury area, the construction of a 25,000-kva transformer and frequency-changer station at Sudbury was commenced.

Work was also commenced upon the 124-mile, 115,000-volt line between Tunnel and Sudbury.

These projects are scheduled for operation in December 1949.

Other Projects

In addition to the major construction projects described above many other improvements were completed or under active construction in 1948.

In the hydraulic engineering field, in addition to the routine maintenance, a concrete envelope was placed around the penstock of No. 2 unit at Ear Falls. At South Falls generating station two wood-stave penstocks were replaced.

In the electrical engineering field the following paragraphs deal briefly with a number of matters of interest.

SOUTHERN ONTARIO SYSTEM

Barrie.—At Barrie transformer station the permanent high-voltage switching equipment was completed and placed in service in June, 1948. A 5,000-kva synchronous condenser was placed in service in October, 1948.

Frontenac.—At Frontenac transformer station the second 15,000-kva transformer bank and 15,000-kva regulating transformer were placed in service in January, 1948.

Guelph.—The capacity of the Guelph transformer station was increased from 7,500 to 15,000 kva in April 1948. Two 5,000-kva, three-phase auto transformers, 13,200/26,400 volts, are being installed in this station.

Haliburton.—A new 1,000-kva, 44,000/12,000-volt distributing station was placed in service at Haliburton in July, 1948. Approximately 44 miles of 44,000-volt transmission line from Mountain Lake junction to the new station were put in service at the same time.

Kingsville.—The new 115,000/26,400-volt Kingsville transformer station, in which is installed a dual-frequency transformer rated 8,000 kva at 25 cycles and 14,400 kva at 60 cycles, was placed in service at 25 cycles in June 1948. At the same time, the 115,000-volt transmission line, 16.75 miles in length required to connect the station to the 115,000-volt system, was made alive.



WESTMINSTER FREQUENCY-CHANGER AND TRANSFORMER STATION
View of massive foundations for frequency-changer units

Oshawa.—The capacity of Oshawa transformer station was increased by 15,000 kva. The new 15,000-kva transformer bank was placed in service with temporary connections in January, 1948.

Ottawa Rural Operating Area.—The new 115,000-volt switching station at Merivale was placed in service in August, 1948. At the same time, a 1,500-kva transformer bank rated 115,000/8,000 volts was placed in service at this station to supply Ottawa rural operating area.

Peterborough Rural Operating Area.—A new 1,000-kva distributing station to augment the supply to Peterborough rural operating area, called Otonabee distributing station, was placed in service in October, 1948.

Wasaga Beach.—A new 2,000-kva station at Wasaga Beach and 3-½ miles of 44,000-volt line were placed in service in July, 1948.

Wasdells Falls.—In the Wasdells area, Thorah and Pinedale distributing stations and connecting lines were changed from 22,000-volt to 44,000-volt operation.

THUNDER BAY SYSTEM

Terrace Bay.—A new 1,500-kva, 12,000/4,160-volt distributing station was placed in service at Terrace Bay in August, 1948.

NORTHERN ONTARIO PROPERTIES

Azilda.—The new 1,000-kva, 115,000/26,400-volt Azilda transformer station was placed in service in February, 1948, together with 18 miles of 26,400-volt transmission line.

Kerr-Addison Mine.—At the Kerr-Addison mine the 15,000-kva, 115,000/26,400-volt transformer station was placed in service in June, 1948.

Kirkland Lake.—The new 3,125-kva frequency-changer set at Kirkland Lake transformer station was placed in service in September, 1948.

Patricia District.—Crow River transformer station, Uchi switching station and the lines between Ear Falls generating station, Jason Gold Mines and Crow River transformer station were changed from 44,000 volts to 69,000 volts in August, 1948.

Schumacher.—Schumacher distributing station, with a capacity of 1,000 kva, was placed in service in July, 1948.

Timmins.—The Timmins distributing station No. 2, with a capacity of 5,000 kva, was placed in service in August, 1948.

Projects Under Construction

Included in projects at various states of construction are the following:

Cornwall.—The installation of a second 15,000-kva transformer bank and regulator will double the capacity of the station.

Hamilton Area.—An increase is being made in transformer capacity of Hamilton-Gage transformer station from 100,000 kva to 125,000 kva and Hamilton-Stirton transformer station from 30,000 kva to 60,000 kva.

Kitchener Area.—A new 16,000-kva transformer station is being installed on the site of the existing Kitchener transformer station. The transformers are of the dual-frequency type and the station will be operated at 25 cycles. When changed to 60-cycle operation it will have a capacity of 28,800 kva. The new station, which has a voltage rating of 115,000/26,400 volts, will supply the area surrounding the city of Kitchener and the town of Waterloo.

Ottawa.—The installation of the second 15,000-kva transformer bank and associated equipment at Ottawa-Riverdale transformer station is scheduled for service early in 1949.

St. Catharines.—The capacity of the transformer station is being increased from 16,000 kva to 45,000 kva. The new transformers are of the dual-frequency type, rated 15,000 kva at 25 cycles and 27,000 kva at 60 cycles.

Tillsonburg.—A new 115,000/26,400-volt transformer station is being constructed, together with $2\frac{1}{2}$ miles of 115,000-volt line. The transformer is of the dual-frequency type having a capacity of 8,000 kva at 25 cycles and 14,400 kva at 60 cycles, and will be operated initially at 25 cycles.

Toronto Area.—Additions are being made to transformer capacity at Toronto-Esplanade and Toronto-Wiltshire transformer stations of 50,000 kva and 36,000 kva, respectively.



TRANSMISSION LINES, LEASIDE JUNCTION TO RICHVIEW JUNCTION
230,000-volt circuits

CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED OCTOBER 31, 1948

Station		Date	Transformers installed				Transformers removed	
			No.	kva*	Ph.	Total kva*	No.	kva
SOUTHERN ONTARIO SYSTEM								
Alcona Beach.....	D.S.	July 20, 1948	3	667	1	2,000	3	333
Arthur.....	D.S.	June 13, 1948	3	100	1	300		
Belmont.....	D.S.	April 16, 1948	3	250	1	750		
Big Chute.....	D.S.	July 8, 1948	3	200	1	600	2	100
Bobcaygeon.....	D.S.	Dec. 18, 1947	3	75		225		
Bradford No. 2.....	D.S.	Oct. 17, 1948	1	600	3	600		
Brockville.....	D.S.	Nov. 1, 1947					3	1,500
Brampton.....	D.S.	Nov. 2, 1947	3	333	1	1,000	3	150
Breslau.....	D.S.	Aug. 13, 1948	3	333	1	1,000		
Burford.....	D.S.	Feb. 1, 1948	3	333	1	1,000	3	150
Clarkson.....	D.S.	Aug. 29, 1948	3	667/1,200	1	2,000/3,600	3	250
Chesterville.....	D.S.	June 21, 1948	1	300	3	300		
Dixie.....	D.S.	Dec. 20, 1947	1	2,000	1	2,000		
Forfar.....	D.S.	Feb. 19, 1948	1	500	1	500		
Frontenac.....	T.S.	Jan. 26, 1948	3	5,000	1	15,000		
Grand Valley No. 2.....	D.S.	June 13, 1948	3	200	1	600		
Guelph.....	T.S.	April 1, 1948	3	5,000	1	15,000	3	2,500
Guelph.....	R.S.	Sept. 19, 1948	3	333/600	1	1,000/1,800	3	150
Haliburton.....	D.S.	July 2, 1948	3	333	1	1,000		
Hepworth.....	D.S.	Aug. 20, 1948	3	200	1	600	2	100
Hollywood.....	D.S.	Nov. 9, 1947	1	1,875	3	1,875		
Kingsville.....	T.S.	June 27, 1948	1	8,000	3	8,000		
Kitchener.....	T.S.	Nov. 1, 1948	3	5,000	1	15,000		
London-Westminster.....	D.S.	Jan. 27, 1948	1	2,000	3	2,000		
Madoc No. 1.....	D.S.	Nov. 2, 1948					2	50
Madoc No. 2.....	D.S.	Aug. 12, 1948	1	600	3	600		
Maidstone.....	D.S.	Dec. 11, 1947	1	1,000	3	1,000		
Mannheim.....	D.S.	Aug. 11, 1948	3	333/600	1	1,000/1,800	6	75
Merivale.....	S.S.	Aug. 8, 1948	3	500	1	1,500		
Merlin.....	D.S.	Dec. 14, 1947	3	333	1	1,000	3	150
Midhurst.....	D.S.	Aug. 19, 1948	1	1,000	3	1,000	3	200
Millbrook.....	D.S.	June 24, 1948	1	100	1	100		
Minden.....	D.S.	July 2, 1948					3	75
Norwood.....	D.S.	Nov. 2, 1947	1	300	3	300		
Oak Ridges.....	D.S.	July 16, 1948	1	2,000	3	2,000		
Oshawa.....	T.S.	Jan. 18, 1948	3	5,000	1	15,000		
Otonabee.....	D.S.	Oct. 14, 1948	1	1,000	3	1,000		
Ottawa No. 2.....	T.S.	June 10, 1948	3	333	1	1,000		
Owen Sound.....	D.S.	July 4, 1948	3	5,000	1	15,000		
Parkhill.....	D.S.	July 15, 1948	1	600	3	600		
Penetang No. 2.....	D.S.	June 24, 1948	1	600	3	600		
Picton.....	D.S.	Sept. 17, 1948					1	750
Picton.....	R.S.	Sept. 19, 1948	3	667	1	2,000	1	300
Port Carling.....	D.S.	May 18, 1948	3	100	1	300	3	250
Port Elgin No. 2.....	D.S.	June 20, 1948	1	300	3	300		
Prescott No. 2.....	D.S.	May 5, 1948	1	600	3	600	3	100

*In cases where two capacities are shown, dual frequency transformers have been installed. The larger capacity relates to 60-cycle rating. Only one frequency output can be used at one time.

CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED OCTOBER 31, 1948

Station	Date	Transformers installed				Transformers removed	
		No.	kva*	Ph.	Total kva*	No.	kva
SOUTHERN ONTARIO SYSTEM							
St. Clair.....	D.S.	Sept. 14, 1948	1	1,000	3	1,000	.....
St. George.....	D.S.	April 18, 1948	1	600	3	600	.....
St. Thomas.....	T.S.	Sept. 18, 1948	3	2,500	1	7,500	3 1,250
Sharon.....	D.S.	April 28, 1948	1	1,000	3	1,000	.....
Sheffield.....	D.S.	May 1, 1948	1	600	3	600	.....
Sherkston.....	D.S.	Sept. 1, 1948	1	1,000	3	1,000	.....
Snow Road.....	D.S.	Sept. 1, 1948	1	37.5	1	37.5	.....
Stirling.....	D.S.	Feb. 25, 1948	3	200	1	600	3 100
Stoney Creek.....	D.S.	Oct. 31, 1948	3	667	1	2,000	1 1,000
Sutton.....	D.S.	May 26, 1948	3	667	1	2,000	3 250
Thetford.....	D.S.	Aug. 12, 1948	1	600	3	600	.....
Vinemount.....	D.S.	Nov. 1, 1947	3	150	1	450	3 75
Virgil.....	D.S.	Oct. 24, 1948	1	600	3	600	1 300
Wainfleet.....	D.S.	May 28, 1948	1	1,000	3	1,000	.....
Wallaceburg.....	T.S.	Nov. 8, 1947	1	8,000	3	8,000	.....
Walkerton.....	R.S.	Oct. 31, 1948					3 50
							3 75
Wasaga Beach D.S.....	D.S.	July 10, 1948	3	667	1	2,000	.....
Waubashene.....	D.S.	April 4, 1948	3	150	1	450	3 75
Warton No. 1.....	D.S.	May 23, 1948	3	333	1	1,000	3 150
Warton No. 2.....	D.S.	Dec. 7, 1947	3	100	1	300	3 50
Willowdale.....	D.S.	April 25, 1948	1	2,000/3,600	3	2,000/3,600	1 1,000
Wingham.....	R.S.	July 22, 1948	3	333	1	1,000	3 150
Winona.....	D.S.	July 25, 1948	1	1,000	3	1,000	.....
THUNDER BAY SYSTEM							
Terrace Bay.....	D.S.	Aug. 1, 1948	3	500	1	1,500	.....
NORTHERN ONTARIO PROPERTIES							
Abitibi District							
Azilda.....	T.S.	Feb. 16, 1948	1	1,000	3	1,000	.....
Connaught.....	D.S.	Nov. 4, 1947	3	333	1	1,000	3 75
Kerr-Addison.....	T.S.	June 15, 1948	3	5,000	1	15,000	.....
Timmins.....	T.S.	Nov. 16, 1947	3	9,500	1	28,500	.....
Patricia District							
Cottage Cove.....	D.S.	June 19, 1948	1	100	1	100	.....
Timiskaming District							
Dane.....	D.S.	May 29, 1948	1	25	1	25	.....
Schumacher.....	D.S.	July 18, 1948	3	333	1	1,000	.....

*In cases where two capacities are shown, dual frequency transformers have been installed. The larger capacity relates to 60-cycle rating. Only one frequency output can be used at one time.

TOTAL MILEAGE OF TRANSMISSION LINES AND CIRCUITS

System and voltage	Kind of structures	Line route or structure miles			Circuit miles
		Total to Oct. 31, 1947	Additions 1948	Total to Oct. 31 1948	Total to Oct. 31 1948
SOUTHERN ONTARIO SYSTEM					
Niagara division					
230,000-volt.	steel	1,025.12	....	1,025.12	1,069.97
115,000-volt.	"	857.56	3.39	860.95	1,450.70
115,000-volt.	wood	111.98	79.05	191.03	192.86
90,000-volt.	steel	65.85	65.85*	0.00	0.00
60,000-volt.	"	34.88	14.88*	20.00	21.13
60,000-volt.	wood	0.25	....	0.25	0.25
26,400-volt.	"	994.09	77.77	1,071.86	1,243.87
13,200-volt.	"	209.68	21.10	230.78	294.41
13,200-volt.	steel	0.82	....	0.82	1.64
12,000-volt.	wood	77.26	0.11	77.37	101.16
Dominion Power district 44,000-volt.	steel	24.87	69.12	93.99	132.34
Dominion Power district 44,000-volt.	wood	49.37	1.02*	48.35	58.93
Dominion Power district 22,000-volt.	"	28.02	....	28.02	28.02
Dominion Power district 10,000-volt.	"	14.40	....	14.40	14.40
Georgian Bay division					
115,000-volt.	steel	49.68	....	49.68	49.68
115,000-volt.	wood	25.69	53.13	88.82	88.82
Bala district 44,000-volt.	"	64.44	....	64.44	64.44
Eugenia district 44,000-volt.	"	308.38	0.02	308.40	374.85
Muskoka district 44,000-volt and less.	"	39.16	....	39.16	39.16
Seyern district 44,000-volt and less.	"	253.00	4.09	257.09	308.06
Wasdells district 44,000-volt and less.	"	91.03	....	91.03	92.37
Eastern Ontario division					
115,000-volt.	steel	244.96	150.74	395.70	400.97
115,000-volt.	wood	357.92	11.29	369.21	371.03
44,000-volt.	"	24.33	....	24.33	24.33
33,000-volt.	"	42.80	....	42.80	48.48
Central district 44,000-volt and less.	"	554.79	45.58	600.37	637.65
St. Lawrence district 44,000-volt.	"	144.05	....	144.05	144.43
Rideau district 26,400-volt.	"	62.48	....	62.48	62.48
Madawaska district 33,000-volt.	"	59.55	4.26*	55.29	55.29
THUNDER BAY SYSTEM					
115,000-volt.	steel	146.11	1.17	147.28	230.89
115,000-volt.	wood	179.71	0.88*	178.83	178.83
44,000-volt.	"	113.81	14.15	127.96	127.96
22,000-volt.	"	8.54	....	8.54	8.63
12,000-volt.	"	1.45	....	1.45	1.45
NORTHERN ONTARIO PROPERTIES					
Abitibi district 132,000-volt.	steel	382.14	0.63	382.77	765.54
Abitibi district 132,000-volt.	wood	190.19	0.36*	189.83	189.83
Abitibi district 26,400-volt.	"	160.97	29.11	190.08	190.74
Abitibi district 13,200-volt.	"	20.30	....	20.30	20.65
Sudbury district 115,000-volt.	"	46.23	....	46.23	46.23
Sudbury district 22,000-volt.	"	78.37	....	78.37	78.58
Nipissing district 22,000-volt.	"	63.16	....	63.16	80.04
Patricia district 69,000-volt. ....	"	....	203.72	203.72	203.72
Patricia district 44,000-volt.	"	349.12	101.55*	247.57	247.57
Patricia district 22,000-volt.	"	33.51	....	33.51	33.64
Rainy River district 115,000-volt.	"	119.81	....	119.81	119.81
Timiskaming district 115,000-volt.	steel	27.08	31.82	58.90	117.80
Timiskaming district 115,000-volt.	wood	74.56	....	74.56	74.56
Timiskaming district 44,000-volt.	"	235.98	8.16	244.14	244.14
Timiskaming district 12,000 & 11,000-volt	"	105.22	....	105.22	169.94
Totals.		8,152.67	625.35†	8,778.02	10,502.77

*Removals.

†Net increase.

NOTE: Circuit miles of 230,000-volt line in the province of Quebec connected to H-E.P.C. lines = 103.45. Total 230,000-volt system interconnected circuit miles = 1,173.42.

TRANSMISSION LINE CHANGES AND ADDITIONS MADE

DURING THE YEAR ENDED OCTOBER 31, 1948

SOUTHERN ONTARIO SYSTEM

HIGH-VOLTAGE LINES

Three parallel 115,000-volt, double-circuit, steel-tower transmission lines were built from Browns Line junction 0.56 mile, 0.57 mile, and 0.58 mile respectively to Kipling transformer station. Only one circuit was erected on the easterly line.

A portion of the 115,000-volt, double-circuit, steel-tower transmission line from London transformer station to St. Thomas transformer station 0.40 mile was removed and two portions 0.34 mile and 0.42 mile respectively of single circuit, wood-pole lines were built to connect into Westminster transformer station.

A 115,000-volt, single-circuit, transmission line, 2.08 miles on steel towers, and 62.10 miles on twin poles, was built from Westminster transformer station to Sarnia transformer station. (60 cycles)

A 115,000-volt, single-circuit, wood-pole transmission line was built from Belle River junction 16.24 miles to Kingsville transformer station.

A 115,000-volt, single-circuit, wood-pole transmission line was built from Barrie transformer station 63.13 miles to Owen Sound transformer station.

A 115,000-volt, single-circuit, steel-tower transmission line was built from Stewartville generating station 16.70 miles to Barrett Chute generating station.

A 115,000-volt, single-circuit, transmission line, 134.04 miles on steel towers, 8.64 miles on twin poles and 1.96 miles on joint double-circuit steel towers was built from Barrett Chute generating station to Oshawa transformer station.

A 115,000-volt, single-circuit, wood-pole transmission line was built from a tap at structure No. 99 of Q95x69, 2.65 miles to Chenaux development. (For construction purposes).

LOW-VOLTAGE LINES

Niagara Division

LONDON DISTRICT:—A 26,400-volt wood-pole transmission line was built from London transformer station 1.90 miles to Westminster distributing station.

A 26,400-volt wood-pole transmission line was built from Ailsa Craig distributing station 7.43 miles to Parkhill distributing station.

PRESTON DISTRICT:—A 13,200-volt wood-pole transmission line was built from Breslau junction 4.99 miles to Breslau distributing station.

A 13,200-volt wood-pole transmission line was built from Beverly St. junction 5.29 miles to Sheffield distributing station.

STRATFORD DISTRICT:—A portion of the 26,400-volt wood-pole line from Milverton junction to Listowel junction 4.22 miles was abandoned and a new portion 3.53 miles was built on a revised route.

The original 26,400-volt line section between Listowel junction and Listowel distributing station 2.77 miles was removed and a new 26,400-volt wood-pole transmission line was built from new Listowel junction 2.81 miles to Listowel distributing station.

A portion of 26,400-volt wood-pole transmission line was built from old Listowel junction 0.80 mile to new Listowel junction.

BRANT DISTRICT:—A 26,400-volt wood-pole transmission line was built from Brant transformer station 4.85 miles to St. George distributing station.

COOKSVILLE DISTRICT:—A 26,400-volt wood-pole transmission line was built from Allan St. junction 0.26 mile to the Canadian General Electric Company, Oakville.

A 26,400-volt wood-pole transmission line was built from Allan St. junction to the Barringham Rubber Company, Oakville.

The 26,400-volt and 13,200-volt wood-pole lines in the vicinity of Cooksville transformer station were rebuilt and extended to a new Toronto Township distributing station to the north of Cooksville transformer station.

A 13,200-volt wood-pole transmission line from Drumquin junction 3.20 miles to Canadian Broadcasting Corporation was purchased from the Canadian Broadcasting Corporation.

KENT DISTRICT:—A 26,400-volt wood-pole transmission line was built from Oungah junction 4.35 miles to Dover Centre distributing station.

A 26,400-volt wood-pole transmission line was built from Wallaceburg transformer station 10.30 miles to Molly's Creek junction.

A 26,400-volt wood-pole transmission line was built from Molly's Creek junction 0.69 mile to Dresden distributing station.

A portion of the 26,400-volt double-circuit wood-pole line between Dresden junction and Oil Springs junction 1.97 miles was removed and a new portion of 26,400-volt single-circuit wood-pole line was built from Molly's Creek junction 1.07 miles to connect into the old line to Oil Springs junction.

ESSEX DISTRICT:—A new transformer station, Kingsville, was erected immediately north of Kingsville junction, and the three lines, Gosfield junction to Kingsville junction, Kingsville junction to Kingsville distributing station and Kingsville junction to Leamington distributing station were diverted into the new transformer station.

YORK DISTRICT:—A 26,400-volt wood-pole transmission line was built from Donnell & Mudge Limited 0.32 mile to Seventh St. junction.

A 26,400-volt circuit was added to existing poles from Seventh St. junction 0.24 mile to Campbell junction.

A 26,400-volt wood-pole transmission line was built from Seventh St. junction 0.15 mile to R. N. Boxer Company.

A 26,400-volt tap was extended from New Toronto distributing station 0.04 mile to Goodyear Tire & Rubber Company.

HAMILTON DISTRICT:—A 13,200-volt wood-pole transmission line was built from Winona Park junction 0.41 mile to Winona distributing station.

ST. CLAIR DISTRICT:—A 26,400-volt tap was made from an existing line to St. Clair distributing station.

A 26,400-volt wood-pole transmission line was built from Sarnia transformer station (60 cycles) 0.80 mile to Polymer distributing station.

A 26,400-volt wood-pole transmission line was built from Union St. junction 9.15 miles to Thedford distributing station.

A 26,400-volt wood-pole transmission line was built from Andrew's junction 0.86 mile to Andrew's Wire Works. Line not in service.

LEASIDE-SCARBOROUGH DISTRICTS:—A 26,400-volt wood-pole transmission line was built from Toronto Brick junction 0.83 mile to Scarborough municipal station.

A 13,200-volt wood-pole transmission line was built from Pottery Road junction 0.44 mile to East York station No. 2.

A 13,200-volt wood-pole transmission line was built from Woodbine Avenue junction 0.36 mile to Humbolt Crescent junction.

A 26,400-volt wood-pole transmission line was built from Scarborough transformer station 0.90 mile to a point north of Lawrence avenue at the crossing of the 230,000 lines. At this point the line connects to an existing line which was reinsulated and restrung a distance of 2.54 miles to Agincourt distributing station.

A 26,400-volt wood-pole transmission line was built from Scarborough transformer station 1.94 miles to Birchmount junction. Line not in service.

FAIRBANK DISTRICT:—A 26,400-volt wood-pole transmission line was built from Tyler St. junction 0.20 mile to the Collis Leather Company at Aurora.

A 26,400-volt wood-pole transmission line was built from McLean Hunter junction 0.12 mile to McLean Hunter Publishing Co. station.

A 26,400-volt tap connection was built to Oak Ridges distributing station.

CROWLAND DISTRICT:—A 26,400-volt tap connection 0.03 mile was built to Wainfleet distributing station.

THOROLD DISTRICT:—A 12,000-volt tap connection 0.11 mile was built to Thorold municipal station.

ALLANBURG DISTRICT:—A 12,000-volt tap connection was built to Thorold South distributing station. (Not in service).

DOMINION POWER DISTRICT:—The 44,000-volt steel-tower line from Firestone junction to Firestone distributing station was partially rerouted 0.44 mile on wood poles.

A 44,000-volt line was built from Oakville junction utilizing an existing circuit and towers 1.48 miles and on new poles 0.08 mile to Trafalgar township distributing station.

Georgian Bay Division

EUGENIA DISTRICT:—A 44,000-volt tap connection 0.02 mile was built to Port Elgin distributing station No. 2.

SEVERN DISTRICT:—A 44,000-volt wood-pole transmission line was built from Jack Lake junction 3.54 miles to Wasaga Beach distributing station.

A 44,000-volt wood-pole transmission line was built from Bradford distributing station No. 1 0.55 mile to Bradford distributing station No. 2. (Operated at 22,000 volts).

WASDELLS DISTRICT:—The 22,000-volt lines between Thorah distributing station and Port Perry junction a distance of 26.87 miles was reinsulated for 44,000-volt operation.

Eastern Ontario Division

CENTRAL DISTRICT:—A 44,000-volt wood-pole transmission line 0.11 mile long was built from Madoc distributing station No. 1 to Madoc distributing station No. 2.

A 44,000-volt wood-pole transmission line was built from Trinity College junction 1.65 miles to Port Hope municipal station.

A 44,000-volt wood-pole transmission line was built from Mountain Lake junction 43.85 miles to Haliburton distributing station.

A 44,000-volt tap connection 0.01 mile was built to Otonabee distributing station.

The 44,000-volt transmission line from Millbrook junction 1.71 miles to Millbrook distributing station was restrung with heavier conductor, and rebuilt pole top pin construction.

A portion of the 44,000-volt transmission line from Port Hope switching station to Millbrook junction, 3.27 miles, was rebuilt pole top pin after the skywire was removed.

The 44,000-volt circuit from Peterborough municipal station 0.52 mile to Canadian General Electric Company was sold to the Peterborough Public Utilities Commission.

RIDEAU DISTRICT:—A portion of the 26,400-volt transmission line from Merrickville generating station 6.19 miles to Kemptville distributing station was restrung.

ST. LAWRENCE DISTRICT:—A portion of the 44,000-volt line between Iroquois distributing station and Cardinal distributing station was relocated a distance of 0.15 mile to accommodate a tap into Iroquois distributing station No. 2.

MADAWASKA DISTRICT:—The 33,000-volt circuit from Galetta junction 4.26 miles to Chats Falls junction was removed. The poles which also carried telephone circuits were turned over to the telephone line sections.

THUNDER BAY SYSTEM

A portion of 115,000-volt double-circuit steel-tower transmission line was built from Alexander generating station 1.17 miles to connect with the construction completed and reported last year.

A 115,000-volt single-circuit wood-pole transmission line was built from Cameron Falls generating station 12.72 miles to Pine Portage development. (The line is operated at 44,000-volts for construction purposes).

A 44,000-volt wood-pole transmission line extension 1.43 miles to Talmora Long Lac Gold Mines was purchased.

A portion of the 115,000-volt line from Cameron Falls generating station to Long Lac transformer station 0.88 mile was removed. The Long Lac line was then tied into Alexander generating station via existing circuits.

NORTHERN ONTARIO PROPERTIES

ABITIBI DISTRICT:—A 132,000-volt steel-tower double-circuit transmission line was built from Arjon junction 0.63 mile to Kerr Addison transformer station.

A 26,400-volt single-circuit wood-pole transmission line was built from Hollinger transformer station 1.53 miles to Timmins distributing station No. 2.

Two parallel 26,400-volt single-circuit wood-pole transmission lines were built from Kerr Addison transformer station each 0.46 mile to Kerr Addison Gold Mines.

A 26,400-volt single-circuit wood-pole transmission line was built from Azilda transformer station 19.58 miles to Nickel Offsets Limited.

A 26,400-volt single-circuit wood-pole transmission line from Azilda transformer station 2.00 miles to Falconbridge Nickel Mines (McKim property).

TIMISKAMING DISTRICT:—A 115,000-volt double-circuit steel-tower transmission line from Casey Interprovincial Boundary junction 41.34 miles to Elk Lake transformer station was removed.

A 115,000-volt double-circuit steel-tower transmission line from Matachewan junction 51.43 miles to Schumacher transformer station was removed.

A 44,000-volt single-circuit wood-pole transmission line was built from Matabitchuan generating station 9.14 miles to Upper Notch generating station. This work included rebuilding and restringing 0.98 mile of an existing 44,000-volt line.

PATRICIA DISTRICT:—A 115,000-volt single-circuit wood-pole transmission line was built from Ear Falls generating station 41.05 miles to Red Lake switching station. (Operated at 44,000-volts).

A 44,000-volt single-circuit wood-pole transmission line was built from Howey junction 0.68 mile to Red Lake switching station.

A 44,000-volt single-circuit wood-pole transmission line was built from Red Lake switching station 1.04 mile to Hasaga junction. (Not in service).

A 44,000-volt single-circuit wood-pole transmission line was built from Red Lake switching station 1.17 miles to connect to the northerly part of line to Orlac Red Lake Mine. (Not in service.)

A portion of the 44,000-volt wood-pole transmission between Howey junction and Madsen Red Lake mine 1.06 miles was removed. The line was then rerouted into Red Lake switching station on a new portion of 44,000-volt line 0.46 mile.

A 115,000-volt single-circuit wood-pole transmission line was built from Ear Falls generating station 61.04 miles to Dryden Paper Company. (In operation at 44,000 volts).

The 44,000-volt line from Ear Falls generating station 48.70 miles to Uchi switching station was changed to 69,000-volt operation.

The 44,000-volt line from Uchi switching station 42.00 miles to Jason Gold Mines was changed to 69,000-volt operation.

The 44,000-volt line from Uchi switching station 131.02 miles to Crow River transformer station was changed to 69,000-volt operation.

The original 44,000-volt transmission line from Ear Falls generating station 40.29 miles to Howey junction was rehabilitated.

COMMUNICATIONS—ALL SYSTEMS

SOUTHERN ONTARIO SYSTEM

For the Southern Ontario system, 7.7 miles of 76-pair communication cable were installed underground between Leaside transformer station and Bridgman transformer station, Bridgman transformer station and Toronto head office, and between Strachan transformer station and Toronto head office. A 36-pair communication cable was installed overhead for a distance of 5.3 miles between Ottawa transformer station and Merivale switching station and a 36-pair cable was installed underground for a distance of 0.7 mile between Strachan transformer station and Hanna avenue stores.

The construction of 46.6 miles of single-circuit telephone line, 4.7 miles of double-circuit telephone line and 8.5 miles of three-circuit telephone line was completed for this system.

Single story telephone carrier channels were established between Leaside transformer station and Belleville regional office, and between St. Thomas transformer station and St. Clair transformer station while private automatic and branch telephone exchange equipments were installed to improve telephone traffic at the Toronto administration head office, Leaside transformer station and Essex transformer station.

Temporary installations of private automatic and branch telephone exchanges were made for construction purposes at the Des Joachims development, Stewartville generating station, Aguasabon generating station, Chats Falls transformer station, Westminster transformer station and Barrie regional office.

Power Line Carrier

Work is in progress on the construction of a new building at Chats Falls to house power line carrier transmitters and receivers which will provide line protection and telemetering facilities between Chats Falls and Merivale switching station in Ontario and Pagan generating station in Quebec and will provide telemetering, load control and a voice duplex channel between Chats Falls and Leaside transformer station where a similar building has been completed.

Telemetering Circuits

Telemetering equipments are being installed at several generating stations in the Niagara area to transmit totalized loads and to receive load control information from the power supervisor's office in Toronto.

THUNDER BAY SYSTEM

For the Thunder Bay system a 16-pair communication cable was strung on poles from a tap on the existing cable between Port Arthur transformer station No. 1 and transformer station No. 2 to the Thunder Bay Paper Company, a distance of 0.76 miles.

Work has been completed on the construction of 14 miles of double-circuit telephone line.

NORTHERN ONTARIO PROPERTIES

For the Northern Ontario Properties, 197 miles of single-circuit and 78 miles of double-circuit telephone line were completed. A single story telephone carrier channel was established between Kirkland Lake transformer station and Cobalt transformer station. Similar equipment is being provided between Coniston generating station and North Bay regional office, Coniston generating station and Timmins transformer station and between Tunnel generating station and Sudbury frequency-changer and transformer station.

Private branch telephone exchange equipments were installed to improve telephone traffic at Wawaitin generating station, Crystal Falls generating station, Stinson generating station and Cobalt transformer station. Temporary installations of private branch telephone exchanges were made at the Tunnel development and North Bay regional office.

RADIO

A 300-watt AM radio station was installed at the Des Joachims development for construction purposes.

Six 50-watt portable FM units were installed for use in the erection of the Des Joachims to Scarborough transmission line.

Guided-wave equipment, formerly installed at stations in southwestern Ontario for emergency purposes, has now been removed and work is progressing favourably with the installation of FM emergency service. Fifteen trucks have been equipped with 50-watt three-way radio transmitting equipment preparatory to the installation of 250-watt fixed stations at Essex, Kent and Westminster transformer stations.

A 300-watt AM radio station was placed in service at the Tunnel development and a 50-watt AM station was installed at Rocky Island lake for emergency communication service.

DISTRIBUTION LINES AND SYSTEMS IN RURAL OPERATING AREAS

The following summary shows the mileage of distribution lines constructed by the Commission in rural operating areas, and the number of consumers served.

The summary shows a total net increase in construction during the year of 3,556 miles of new primary line completed and giving service to 26,036 additional consumers.

SUMMARY OF CONSTRUCTION IN RURAL OPERATING AREAS

System and division or district	At October 31, 1947		At October 31, 1948					
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line			Number of consumers		
			Constructed	Under construction or authorized	Total	Receiving service	Authorized	Total
SOUTHERN ONTARIO SYSTEM								
Niagara division.....	13,166	114,168	14,233	534	14,767	126,831	1,808	128,639
Georgian Bay division.....	3,932	30,291	4,948	464	5,412	35,618	2,365	37,983
Eastern Ontario division.....	5,835	41,905	6,971	759	7,730	48,228	3,909	52,137
THUNDER BAY SYSTEM	308	1,868	416	83	499	2,134	438	2,572
NORTHERN ONTARIO PROPERTIES								
Abitibi district.....	79	434	125	15	140	573	82	655
Manitoulin district....	180	1,340	227	42	269	1,566	146	1,712
Rainy River district..	61	364	72	55	127	404	221	625
Sudbury district.....	102	2,312	139	116	255	2,908	734	3,642
Nipissing district.....	102	1,371	141	60	201	1,760	268	2,028
Timiskaming district..	.....	.....	31	56	87	67	209	276
Smooth Rock area....	.....	.....	18	27	45	.....	491	491
Totals.....	23,765	194,053	27,321	2,211	29,532	220,089	10,671	230,760

SECTION VII

RESEARCH ACTIVITIES AND APPROVALS TESTING

Research Activities Improve Construction Methods—Increase Operational and Maintenance Efficiency—Benefit Domestic Consumers

AN INCREASE of nine per cent in staff and of twenty-five per cent in appropriations for research reflects the growing demands upon the facilities of the Research division. The value of the assistance provided for the Commission's technical operations has been augmented by the recent reorganization. This has promoted closer liaison between the research staff and other sections of the Commission, and has helped the timely distribution of technical information to those who can best use it. Research and testing services contribute to all Commission technical activities, from the initial stages of construction for power generation, through the varied problems of operation and maintenance, to the efficient utilization of electricity by the consumer in both familiar and new applications.

Construction of new power projects has resulted in a substantial increase in the investigation of masonry materials and in activities relating to the quality control of field concrete. The number of routine job tests in 1948 was more than double that of the previous year. Field studies led to improved practices in concrete placement, and related research particularly on mass concrete problems was intensified. Attention was directed also to the study of durability of concrete, and laboratory tests were conducted on precast concrete units which are being used in some of the Commission's new buildings.

Significant contributions were made to construction methods and to operational and maintenance efficiency through new developments in equipment and procedures. For example, tests established the adequacy of modified Bailey bridging for certain construction purposes. Equipment developed during the year included an improved hot-spot temperature indicator for overcurrent protection of power transformers; long driven rods for improving grounding in rural areas, and a portable bolometer for detecting overheated transmission line joints.

Chemical tests and investigations play an important part in quality control of purchases of paints, oil, steel, and other items. They serve also to

reveal the progress of deterioration of materials, to assess the efficacy of insulating oil reconditioning processes, and to determine causes of unsatisfactory performance or durability of some products.

Domestic consumers will benefit directly from such projects as improvements to Hydro automatic electric storage water heaters, and studies of light flicker caused by sudden changes in electric load. In the field of comparatively recent applications, the feasibility of heat pumps for domestic and industrial heating and air cooling is being investigated.

The testing services of the Approvals Laboratory of the Canadian Standards Association continued to safeguard the purchaser of electrical equipment and appliances, by ensuring their conformity to high standards of safety.

Research and Testing

The research program was assigned mainly to 20 research subcommittees representing all departments of the Commission. These subcommittees concentrate collective effort and experience on a particular field of investigation assigned to them. The summary which follows briefly describes the chief projects and developments of the Research division of the Commission's activities.

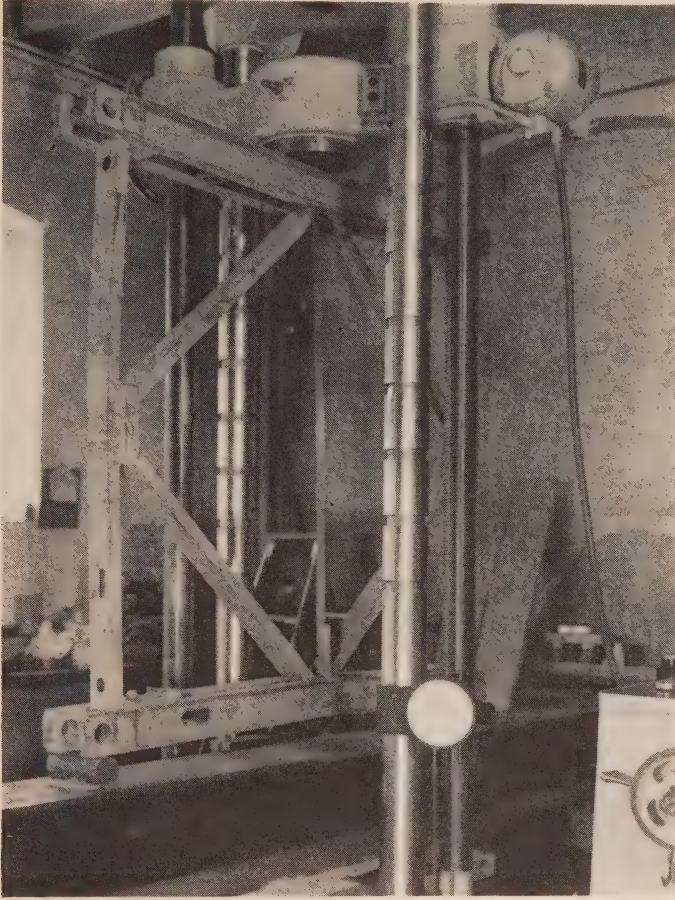
Electrical Insulation

Measurements relating to the condition of the electrical insulation of high-voltage equipment in power stations have been made during three successive summers, and are being continued. These have the dual purposes of evaluating various test methods and apparatus, and of detecting and assessing the deterioration in service of the electrical insulation of such equipment as power transformers, oil circuit-breakers, generators, frequency changers, synchronous condensers, and cables. The fields of application of the several methods have been sufficiently well established by the surveys, that a valuable insulation testing service is now available for use throughout the systems.

The study of surge effects was helped by the addition of a rapid response high-voltage electronic oscillograph, and an increase in voltage rating of a surge generator. Surge testing of all ratings of distribution equipment is now possible, and an investigation was begun of the transference of surges through distribution transformers. Field measurements and observations have also been continued of lightning surges on high-voltage station equipment, and on rural distribution lines. These related studies are aiding in the further development of measures to protect equipment from surges.

Grounding Improvement

During the summer of 1948, the protective grounding of a selected rural area was improved by driving long rods. Records of future fuse-blowing and equipment damage will be compared with previous data and are expected to show improvement. Surveys of neutral potentials have been continued in districts where conditions are not favourable for securing low ground resistance. Also, by adopting suitable measures, lower ground resistance



PHYSICAL TESTS ON A SECTION OF MODIFIED
BAILEY BRIDGING

was obtained for some steel-tower footings and at a number of construction sites and generating stations.

Overcurrent Protection of Transformers

The loading of power transformers beyond normal rating during peak loads is frequently necessary for economic operation. Study of permissible overload has been continued along with the length of time such overload can be sustained without harmful overheating of the insulation. Since the temperature of the hottest part of the winding is the critical factor, the available devices for indicating hot-spot temperatures have been investigated. Of these, a "rise-simulator" developed by the Commission has proved to be the most promising. Units have been placed in service on some transformers, and their performance is being carefully checked to determine whether their general adoption is to be recommended. Also, the effectiveness of one type of fan for cooling transformers has been studied under various conditions of wind and surrounding temperatures.

Fault Location

To locate sustained faults on transmission and communication lines, four "Linascopes" designed and developed by the research staff have been placed in service. Provided the circuit impedance is not too great, these will locate a fault occurring within 300 miles with an error of less than one per cent. This development of the echo-ranging principle makes an important contribution to maintenance of service.

An experimental "wave-burst" linascope has been constructed and installed at Leaside transformer station. This unit can be capacitor-coupled to a line in service, allowing the unit to locate transient as well as sustained faults on high-voltage circuits.

Space Heating

Winter heating and summer cooling by heat pump units operated electrically are being investigated for various reasons, such as their practical possibilities in Ontario and their load-building potentialities. Plans were prepared and equipment was ordered for an experimental installation at Wiltshire transformer station, to use the transformer cooling water as the heat source. The use of heated industrial waste water for space heating through a heat pump cycle shows promise of being economically feasible. The performance is being carefully checked of two private domestic heat pumps which transfer heat from the earth and also provide for summer cooling.

Domestic Water Heating

Five thousand Hydro automatic electric storage water heaters with the duplex strap-on element feature have been produced and distributed through local utilities commissions. Their service behaviour is being followed, and as a result some minor improvements have been incorporated in revised specifications. Studies of corrosion protective measures for tanks are being continued.

Illumination

A portable photoelectric photometer for measuring low levels of illumination was developed and constructed. This instrument provides an improved means for street-lighting surveys.

The depreciation of lighting systems and lamps was studied, and a procedure was developed for determining the most economical cleaning time for luminaires. Tests are continuing to determine the inherent depreciation of light output of various types of lamps. The several factors which determine whether flicker will be objectionable were reviewed. Progress was made in the conversion for 60-cycle operation of 25-cycle fluorescent lamp auxiliaries.

Joints and Connections in Electrical Conductors

As an improvement upon sleeves of cast aluminum for compression joints in conductors of steel-reinforced aluminum and all-aluminum, sleeves of extruded aluminum have been developed. These are pressed on by hexagonal dies, and provide joints of adequate strength with no tendency to crack. They are not only cheaper and lighter than cast sleeves but also are free from flaws and are electrically satisfactory.



STREET-LIGHTING MEASURING EQUIPMENT

This portable photoelectric photometer facilitates rapid and accurate surveys of street lighting

For joints in the steel core of conductors, hexagonal compression joints of low-carbon seamless steel tubing have been developed in seven sizes to serve fourteen sizes of strands. These joints are almost as strong as the cable, and indications are that the cost of the sleeves will be much less than of those used to date. For replacement of joints which have deteriorated in service, a long repair sleeve of aluminum tubing and a steel core, both designed and fabricated as above, have been developed to replace the present practice of splicing in a short length of cable requiring two joints.

Long-range and accelerated exposure tests on line and U-bolt clamps are establishing practices to minimize galvanic corrosion of aluminum conductors. Unless high strength is necessary, aluminum clamps are generally recommended. In this event, bronze clamps coated with flowed tin are promising. In U-bolt clamps, fillers should be of aluminum.

Service inspection of transmission lines for overheated joints will be greatly facilitated by a newly-developed portable bolometer. With this instrument only two weeks were required to survey over 40 miles of older



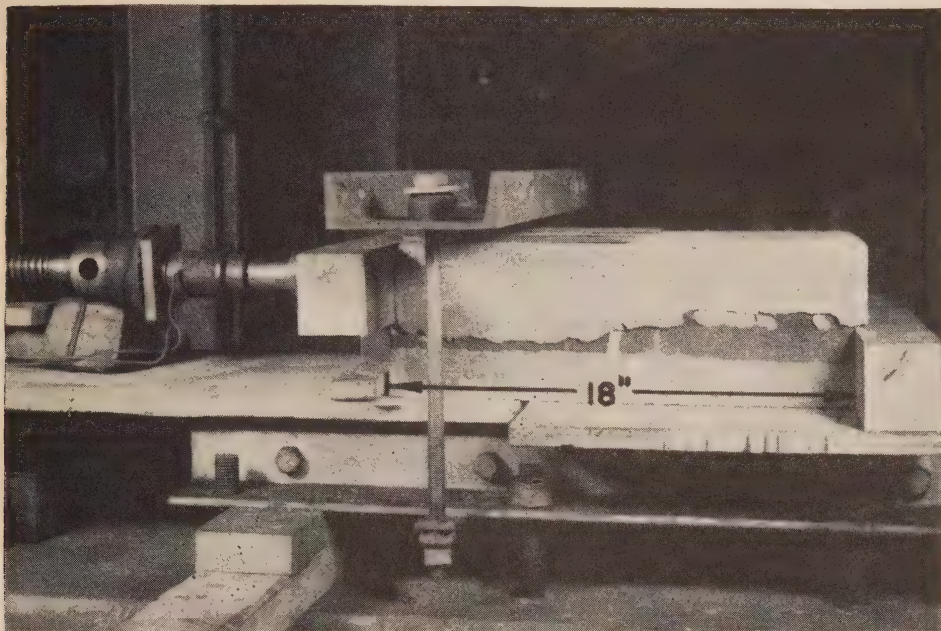
FIELD USE OF PORTABLE BOLOMETER
Instrument is sighted on a transmission line
joint to detect overheating

lines. By sighting on a joint from a point on the ground within 100 feet, this infrared detector measures the temperature of the joint with the circuit in service, and thus indicates its true condition. The instrument was also used to detect overheated disconnecting switches at a transformer station.

Masonry Materials

A marked increase in the volume and scope of research related to masonry arises from the Commission's expansion program. Work to ensure the quality and durability of concrete has been greatly expanded. Although effort is focussed on problems associated with present construction materials and methods, the maintenance of older structures and the improvement of future construction receive constant attention.

Close supervision is exercised over new concrete construction, in selection and testing of raw materials, proportioning of mixes, placement operations, and curing. Instruments have been embedded during construction at Barrett Chute, Stewartville and Aguasabon dams to measure any changes or movements in the structures caused by temperature effects and the application of service loads. The ultrasonic apparatus has been further developed and used for measuring the depth of surface cracks in mass concrete. Test cylinders representative of the concrete in new structures have been buried at the sites for periodic strength determinations over a 100-year period.



**MEASURING SHEAR STRENGTH OF INSULATED PRECAST
CONCRETE WALL SLAB**

Force was applied by a screw jack and measured on a pressure cell

In the laboratory, accelerated freeze-thaw cycles have checked the weathering behaviour of special concretes. Grouting practices have been reviewed, and some study has been made of the properties of precast concrete. Statistical analysis has been applied extensively for such uses as comparison of the performance of test equipment, personnel and procedures, establishment of adequate control in cement acceptance tests, and standardization of concrete strength records.

Applied Mechanics: Stress Measurement and Analysis

Resistance-type strain gauges were used in some special applications to measure the stress imposed on parts of equipment or structures. These applications included installations at Aguasabon tunnel and surge tank riser to indicate steel and concrete stresses, water pressures and wave velocities; strain measurements on the DeCew Falls' penstocks as they were filled; measurements of the distribution of jack screw loads of a Kingsbury thrust bearing in a generator unit; load tests on an 80-foot span of modified Bailey bridging proposed for the support of a concrete conveyor; and determination of the pressure imposed on forms by freshly-placed concrete.

Structural Testing

The form work for some of the large concrete dams now being built is of plywood panels, reinforced by ribs, and bolted to a framework of modified Bailey bridging. Alterations to the bridge components and the design of auxiliary fittings have required extensive laboratory and field testing.

Full-scale field tests to determine the load distribution among various parts of steel transmission line towers formed the basis of recommendations for improved footing reinforcement.

The Commission's equipment for the calibration of testing machines and the related experience of staff members have frequently been in demand by commercial organizations.

Soil Mechanics

Advances in this science within the past twenty years are enabling explanations to be given and predictions made of the behaviour of soil in earth structures or as foundations. Field investigations and laboratory tests on soil samples have dealt with foundation problems at a steam generating station site, and with seepage control, stability of embankments, soil movements, road building for construction sites, and the surfacing of traffic areas. The bearing capacity of soil for bridge abutments and for various footings of transmission line towers and Bailey bridge structures was determined.

Preservative Treatment of Wood Poles

Improved methods of prolonging economically the serviceability of the Commission's 1,100,000 wood poles are constantly being sought, to ensure better power service, reduce maintenance costs, and conserve wasting timber reserves. Long-term studies are conducted on stubs variously treated and buried in test beds, and important findings have resulted. Much progress has been made in the development of preservative treatments for jack and red pine which must be used to replace the dwindling supplies of cedar.

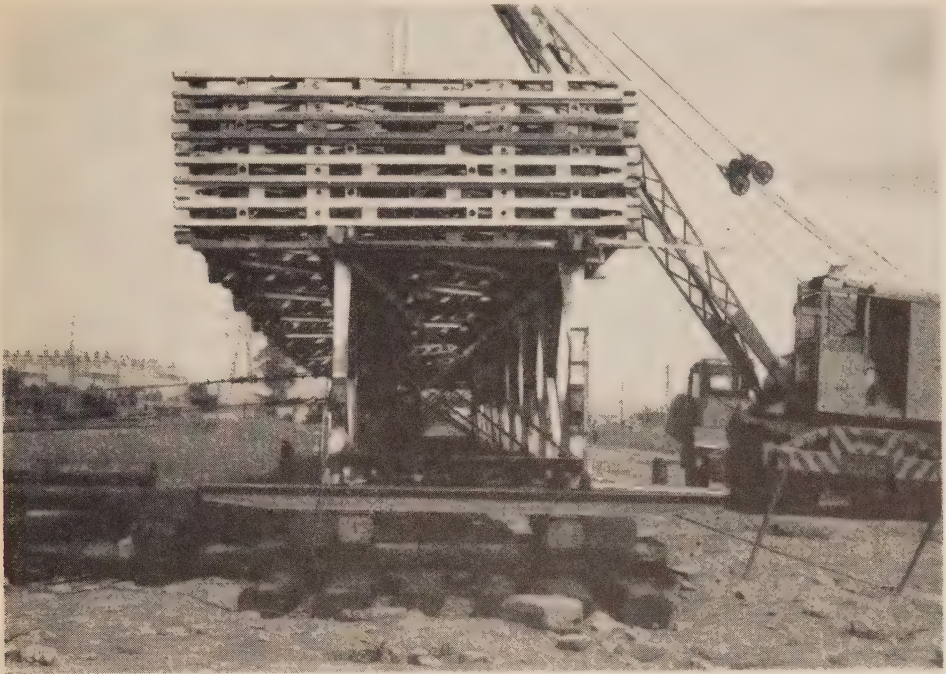
Commercial pressure treatment with a mixture of creosote, fuel oil and pentachlorophenol has given promising results. The effect of pressure treatment with toxic water solutions of pentachlorophenates is under investigation, and results to date are encouraging. This treatment shows no detrimental effects on wood, and leaves the surface dry, clean, and ready for painting.

Paints and Protective Coatings

The extensive use by the Commission of paints, equipment enamels, roofing plastics and other protective finishes calls for frequent comparative tests of competing products to ensure sound selection of these agents. The relative merits of 36 brands of paints and enamels recommended by manufacturers for concrete floors were assessed by a comprehensive series of tests.

Petroleum Products

Changes in the available sources of crude oil made necessary the selection of an insulating oil different from that formerly used in transformers and oil circuit breakers. After tests of several new oils, one was recommended which had better properties than those used previously. Routine tests of insulating oils in service were continued, and checks were made on reconditioned oils during and after processing. The effects of insulating varnishes on oils were investigated, and efforts were made to develop methods for assessing such effects.



**LOADING TEST ON BAILEY BRIDGING MODIFIED FOR
COMMISSION CONSTRUCTION**

This 80-foot span was designed as a horizontal support for a conveyor. It is being subjected to a combined horizontal (wind) and eccentric vertical load

New lubricating oils, greases and extreme-pressure lubricants were tested and evaluated, as well as the deterioration in service of generator, Diesel, automobile and other lubricants.

Brush, Weed, and Pest Control

In co-operation with the Forestry section of the Operations division, work has been undertaken on chemical control of right-of-way brush, on prevention of resprouting of stumps, and on chemical sterilization of station areas covered by crushed stone. Further tests and surveys have been planned for next summer (i.e. 1949) on the basis of present field experience.

Measures to control house flies, mosquitoes and black flies, especially at construction sites and in northern communities, have been examined. Recommendations for the use of approved herbicides and insecticides have been circulated to the personnel concerned.

Routine Testing and Calibrations

A wide range of routine electrical, physical and chemical tests serves several essential purposes in the Commission's operations. The quality of materials and equipment selected for purchase is ensured by control tests on such items as paints, oils, cement, lamps, line hardware, wire and cable, insulators and bushings. Similar tests on concrete, aggregates, soil, salvaged equipment, reconditioned insulating oils and ground and industrial waters

contribute to the durability of structures and the service life of equipment. The safety of Commission personnel is promoted by tests on linemen's gloves, belts, safety platforms, and other equipment.

Another essential service which has assumed large proportions is the calibration and repair of watthour meters and other electrical instruments, and the maintenance of standards for accurate measurements throughout the systems.

Approvals Laboratory

The business of the Approvals Laboratory showed a definite recession during the year, caused mainly by the embargo against electrical appliances manufactured in the United States. A 28 per cent decrease in the number of applications for initial approval tests has resulted, compared with an increase of 34 per cent in 1947 over the previous year. The decrease is general, affecting all classes of equipment and material in a greater or less degree, with a reduction in the number for heating appliances and lighting devices of nearly 50 per cent.

Contrary to the trend in approvals testing, the volume of label sales continued to grow, with an increase of 13 per cent in the total number sold, but a decrease of two per cent in the footage of wire, cable and conduit covered by labels.

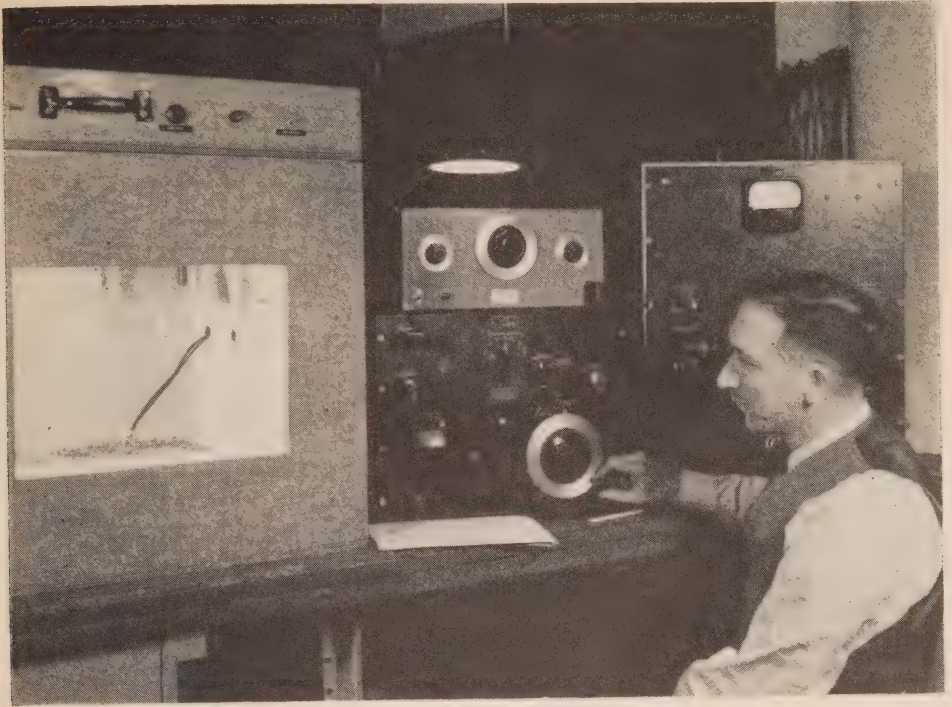
Applications were received for 19 "fact-finding" reports. These covered equipment or material submitted which in most cases could not meet one or more specific requirements of the Canadian Electrical Code, but for which claims were made that equivalent construction had been provided.

The decline in business of initial approval testing has made necessary a reduction in technical staff. As in past years, staff members attended meetings of the Approvals Administration Board, the Approvals Council, and the Canadian Electrical Code Committees, Parts I and II.

New Equipment

Ever-changing problems frequently require new research and testing equipment as well as improvements and modifications to existing equipment. To maintain adequate facilities, many items are designed and constructed, and other suitable commercial products are purchased. To provide the almost constant voltage and current needed for some electrical measurements and calibrations, facilities which were developed included a double-unit electronically-regulated voltage supply, a 5,000-volt rectifier for direct current supply and an incremental peak voltmeter for measuring and graphically recording voltage fluctuations. Equipment for magnetic testing of steel was also constructed. A Kelvin double bridge for resistance measurements, portable recording milliammeters, and a double-beam oscillograph, portable frequency standard, frequency indicator and low frequency oscillator for electronic applications were major items of electrical equipment purchased.

For masonry investigations, a turbidimeter and an autoclave for determining the fineness and soundness respectively of cement, and a masonry saw for cutting six-inch concrete cylinders were purchased. Modifications were made to test-cylinder capping jigs and to equipment for measuring alkali-reactive aggregate expansion.



**PERFORMANCE TESTS ON ELECTRONIC COMPONENTS AT
—50 DEGREES CENTIGRADE**

Cabinet at left will maintain its temperature within one-half degree over a range from 100 degrees to —55 degrees Centigrade

Facilities for structural testing and stress measurement were supplemented with resistance-wire pressure gauges and tension dynamometers specially designed to be waterproof and remote-reading.

In addition to new equipment for field use in sampling and classifying soils, items obtained for laboratory tests on soils included a four-unit consolidometer for determining the settlement characteristics of clays under load and a small triaxial testing machine for measuring the shear strength of cylindrical samples of soil.

Another significant contribution was the design and construction of potential indicators for the protection of personnel, to verify that a circuit is not energized. These indicators are now stocked in Commission stores and are in widespread use.

SECTION VIII

PERSONNEL ADMINISTRATION

Problems of a Greatly Increased Staff— A Year of Constructive Effort

IN THE Fortieth Annual Report the Commission recorded the creation and organization of the Personnel branch and outlined the broad scope of its work as a factor of growing importance to the service rendered to the people of the Province by The Hydro-Electric Power Commission of Ontario.

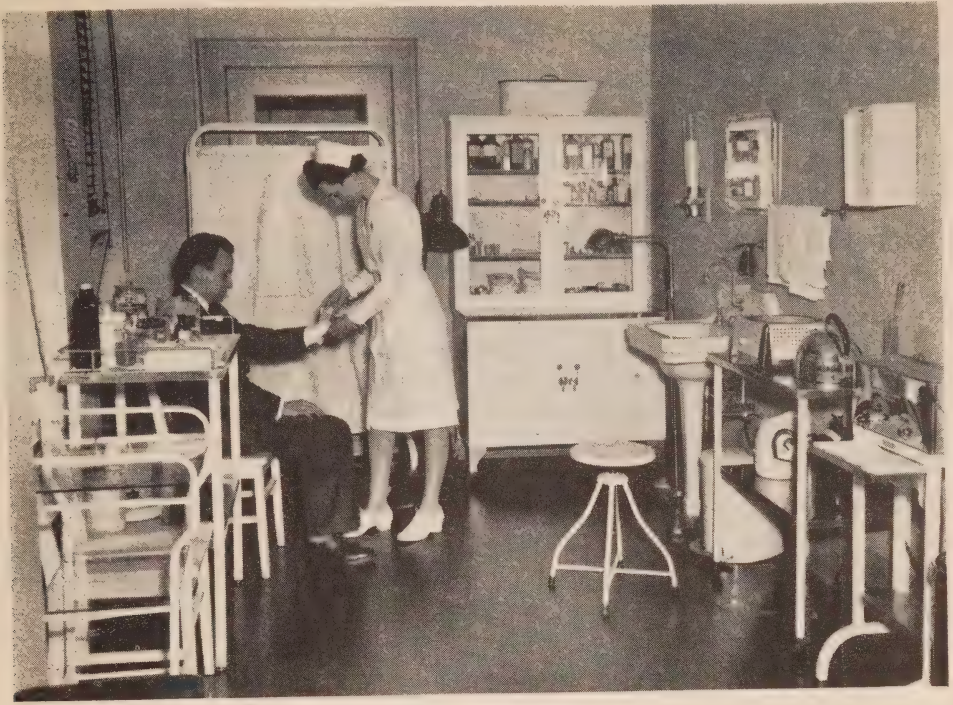
The principles and policies formulated as a result of the recommendations of J. D. Woods and Gordon Limited were tested and as experience was gained certain modifications and extensions were made in order to provide a relationship between management and employee which would ensure a maximum of mutual satisfaction and cooperation. The initial stages of reorganization called for extensive employee transfers, the creation of new positions and the assumption of new duties and responsibilities.

The reorganization was carried forward in a manner that recognized the personal aspirations of the individual employee and appreciated the fact that suitable training and encouragement would enable him to achieve a greater measure of success.

Organization

Personnel officers were appointed to all the Regions and in April 1948, following a short training period, they took over their duties. A few months later similar appointments were made to the administration and engineering branches and to the frequency-conversion division. Similar personnel assistance was provided at all the major power developments. Although the initial period of special training was short, it has been continued through appropriate study and frequent conferences at head office. There have also been efforts to ensure a uniformity in the application of personnel policies throughout the organization.

Although it is recognized that the principles which govern satisfactory personnel relationships can only be put into effective practice by the line organization, the importance of the responsibilities of the personnel officers has not been overlooked.



FIRST-AID ROOM AT HEAD OFFICE, TORONTO

The Year's Activities

The year recorded another remarkable increase in the total staff of the Commission from 12,758 at October 31, 1947 to 17,186 at October 31, 1948. At the end of 1948 the total staff was 18,097 made up of 6,479 regular and 11,618 temporary employees. Approximately half of the total staff is with the construction department. About 2,000 of the new Canadians who arrived from Europe during the year were allocated to Commission and contractors' camps where they have given good service. The labour situation throughout the year was generally satisfactory and, with the exception of some minor shortages of tradesmen, all camps and developments were maintained at the required strength. The increase in staff is reflected in payroll earnings which, for all employees, rose from \$2,250,000 for October 1947 to \$3,460,000 for October 1948. A large portion of this increase is, of course, attributable to the Commission's huge construction program.

One of the major accomplishments during the year was the development of a new pension plan following a comprehensive study in conjunction with a firm of experienced consultants. The new plan has met with complete acceptance by the staff.

Several province-wide surveys were instituted covering salaries, wages, working conditions, cost of living and related subjects. Many merit rating plans were studied and later assembled to help forward the reorganization program. In two of the construction camps a study was made to determine the attitude of the worker towards his job. The findings were valuable and will be useful in formulating future policy.

The collective agreement between the Commission and the Employees Association was revised and extended for a further period of one year to April, 1949. An agreement in somewhat similar form was also signed with the Federation of Employee Professional Engineers and Assistants. The few grievances which reached committee stage were satisfactorily adjusted and relations between employees and management continued on a friendly basis throughout the year.

During the year 286 employees in various trades completed a prescribed course of instruction at the Training Centre. Since its establishment three years ago, 724 employees have completed courses.

The program of accident prevention work was continued, and certain hazardous conditions were corrected. The major accidents which occurred were thoroughly investigated and appropriate recommendations made to prevent a recurrence. The average monthly compensation cases per 1,000 employees varied from a minimum of 3.7 in March to a maximum of 6.1 in June.

The modern hospitals maintained at Des Joachims and Pine Portage were of service in maintaining the efficiency of the construction staff. Advice and assistance were given to the contractors of the Tunnel development in the establishment of a hospital at the site. The medical services available at head office were widely used.

SECTION IX

FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission on
Behalf of Co-operating Municipalities of the Southern Ontario
System (Niagara, Georgian Bay and Eastern Ontario Divisions)
and the Thunder Bay System,

and to

Northern Ontario Properties Held and Operated by the Commission
in Trust for the Province of Ontario

IN this section of the Report financial statements relating to the activities of The Hydro-Electric Power Commission, segregated into certain distinct divisions, are presented. The first division relates to those activities on behalf of the co-operative municipalities, which are partners in the main Hydro undertaking comprising the Southern Ontario system (Niagara, Georgian Bay and Eastern Ontario divisions), the Thunder Bay system, and Rural Power districts associated with these two systems. The second relates to the administration of the Northern Ontario Properties which are held and operated by the Commission in trust for the Province of Ontario.

Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the Hydro undertaking in supplying electrical service at cost, and to the wholesale and retail aspects of the work. A description is also given of the systems into which the partner municipalities are co-ordinated for securing common action with respect to power supplies, through the medium of The Hydro-Electric Power Commission of Ontario which, under The Power Commission Act, functions as their Trustee.

Although for the purpose of financial administration the Southern Ontario and Thunder Bay systems are separate units, there is a similarity of procedure with respect to their operation which enables certain financial statements, as for example the various reserves, to be co-ordinated and presented in summary tables.

The first set of tables in Section IX gives collective results for the co-operative activities related to the two systems. These tables include a **balance sheet**; a **statement of operations** as detailed in the "cost of power" tables referred to below; schedules respecting **fixed assets, capital expenditures and grants—rural power districts, account with the Provincial Treasurer of the Province of Ontario, funded debt, power accounts receivable, renewals reserves, contingencies and obsolescence reserves, frequency standardization reserve, stabilization of rates reserves and sinking fund reserves.**

The tables which follow these general financial statements relate more particularly to the individual municipality's aspects of the wholesale activities of the Commission and for each system show the **cost of power** to the individual municipal utilities, the **credit or debit** adjustment remaining at the end of the fiscal year, and the **sinking fund** equity that has been acquired by the individual municipality. There is also included for each system a **rural operating** statement.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. In general each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use,* together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The annual expenses and the appropriations for reserves are provided out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,† when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such current expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for contingencies and obsolescence. The first-mentioned reserve, namely, sinking fund, is being created on a 40-year basis for the purpose of liquidating

*Subject to maximum rate; see footnote on page 182.

†The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities however, ends on December 31, and the municipal accounts are made up to this date, and are so recorded in Section X.

capital liabilities. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of The Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

Tabular Data

The following comments relate to the tabular data presented:

Balance Sheet.—The first tabular statement given in Section IX is a balance sheet showing the assets, and the liabilities and reserves of the co-operative systems.

Statement of Operations.—This statement is a summary of operating expenses and fixed charges as shown in the “cost of power” tables and rural operating statements relating to the individual systems as referred to more particularly below.

Fixed Assets.—Details are given concerning the various fixed assets of each system and of the miscellaneous properties, showing in separate classifications the values of plant under construction and in service, depreciable and non-depreciable and supplemented by a statement showing expenditures, adjustments and retirements occurring during the year.

Capital Expenditures and Grants—Rural Power Districts.—This schedule gives summary information respecting the total capital expenditures on rural power districts and grants-in-aid of construction paid or payable by the Province with respect to such rural districts.

Account with the Provincial Treasurer.—This schedule lists, both for the systems operated on a cost basis and for the Northern Ontario Properties which are held and operated by the Commission in trust for the Province, the advances from the Province of Ontario and the repayments which have been applied to reduce this liability. It should be noted that Provincial advances to finance Northern Ontario Properties are shown in memorandum form only on the balance sheet of the Commission as the direct liability is carried on the Northern Ontario Properties’ balance sheet.

Funded Debt Issued.—This schedule presents a complete list of the outstanding securities issued by the Commission on account of the systems, and the Northern Ontario Properties. It should be

noted that securities issued to finance Northern Ontario Properties are shown only in memorandum form on the balance sheet of the Commission, while the direct liability is shown on the balance sheet of the Northern Ontario Properties.

Power Accounts Receivable.—This schedule sets forth the amounts collectable from all classes of power consumers and includes the annual adjustment figures from the “credit or charge” statements for municipalities. The amounts of debit balances three months or more overdue are stated.

**Renewals Reserves,
Contingencies and Obsolescence Reserves,
Frequency Standardization Reserve, and
Stabilization of Rates Reserves.**

These schedules show the provisions made to, the expenditures from, and the balance to the credit of, these reserves for each of the systems and other properties included in the power undertakings operated on a cost basis.

Sinking Fund Reserves.—This schedule summarizes the appropriations of principal and interest with respect to these reserves for each of the systems and certain other properties.

Following these statements, which combine data for all systems, there are given for each of the co-operative systems four tabular statements as follows:

Cost of Power statement, which shows the apportionment to each municipality of the items of cost summarized in Statement of Operations, as well as the apportionment of fixed assets in service listed in the balance sheet and the amount of power taken by each municipality. It should be noted that the cost of power given in this table is the wholesale cost—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility. In the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement “B” of Section X as cost of power supplied by H-E.P.C.

Credit or Charge statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality as part of the cost of power together with its proportionate share of other sinking funds.

Rural Operating statement, which summarizes for the rural power district of the system the various items of cost, and the revenues received, in connection with the distribution of electrical energy to rural consumers.

Northern Ontario Properties

The statements and schedules respecting these properties which are held and operated by the Commission in trust for the Province of Ontario include the balance sheet, operating account, schedules of fixed assets, renewals reserve, contingencies and obsolescence reserve, and sinking fund reserve. These schedules are similar in form to the corresponding schedules relating to the co-operative systems.

Municipal Utilities

All municipal Hydro utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserves to protect generating, transforming and transmission systems, the municipalities are taking similar action with respect to their local Hydro utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

Auditing of Accounts

The accounts of The Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and The Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FINANCIAL ACCOUNTS

For the year ended October 31, 1948

Relating to Properties operated on a "Cost Basis" for the Co-operating Municipalities and Rural Power Districts which are supplied with Electrical Power and Services from the following Properties:

Southern Ontario System

Thunder Bay System

Service and Administrative
Buildings and Equipment

STATEMENTS

Balance Sheet as at October 31, 1948

Statement of Operations and Cost of Power for the year ended
October 31, 1948

Schedules supporting the Balance Sheet as at October 31, 1948:

Fixed Assets—By Systems and Properties

Fixed Assets—Changes during year

Capital Expenditures and Grants—Rural Power Districts

Account with the Provincial Treasurer of the Province of Ontario

Funded Debt

Power Accounts Receivable

Renewals Reserves

Contingencies and Obsolescence Reserves

Frequency Standardization Reserve

Stabilization of Rates Reserves

Sinking Fund Reserves

Statements for Municipalities Receiving Power under Cost Contracts

THE HYDRO-ELECTRIC POWER SOUTHERN ONTARIO AND

BALANCE SHEET AS AT

ASSETS		
FIXED ASSETS:		
Southern Ontario system.....	\$426,855,151.80	
Thunder Bay system.....	41,977,572.78	
Service and administrative buildings and equipment.....	6,755,055.59	
	<u>\$475,587,780.17</u>	
Less grants in aid of construction—		
Province of Ontario—for rural power districts.....	32,219,244.72	
		<u>\$443,368,535.45</u>
CURRENT ASSETS:		
Employees' working funds.....	\$ 143,909.41	
Sundry accounts receivable.....	1,196,890.18	
Power accounts receivable.....	4,843,431.63	
Rural power district grants receivable.....	583,674.28	
Interest accrued.....	653,403.82	
Consumers' deposits—		
Cash deposits.....	\$ 77,048.69	
Securities—at par value.....	279,850.00	
	<u>356,898.69</u>	
Prepayments and sundry deposits.....	211,071.12	
		<u>7,989,279.13</u>
INVENTORIES:		
Construction and maintenance materials and supplies.....	\$ 20,782,946.40	
Construction and maintenance tools and equipment.....	11,603,229.66	
Office equipment.....	441,055.71	
		<u>32,827,231.77</u>
DEFERRED CHARGES AND SUNDRY ASSETS:		
Unamortized discount on debentures.....	\$ 1,683,761.14	
Sundry investments.....	234,125.00	
Agreements and mortgages.....	73,871.02	
Rural district loans.....	1,377.64	
Work in progress—deferred work orders.....	1,154,803.67	
		<u>3,147,938.47</u>
RESERVE FUND INVESTMENTS:		
Investments in government and government guaranteed bonds, at amortized cost—		
Employers' liability insurance fund.....	\$ 1,739,998.33	
Pension fund.....	13,227,363.54	
Savings and retirement fund.....	313,567.77	
Other reserves.....	61,099,755.73	
		<u>76,380,685.37</u>
		<u>\$563,713,670.19</u>

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

OCTOBER 31, 1948

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt.....	\$200,539,000.00	
Less debentures issued to finance Northern Ontario Properties.....	39,325,000.00	
		\$161,214,000.00
Advances from the Province of Ontario . . . \$ 73,864,359.19		
Less advances for Northern Ontario Properties.....	5,150,795.20	
		68,713,563.99
Purchase agreements and mortgages.....	4,526.15	
		\$229,932,090.14

CURRENT LIABILITIES:

Bank overdraft (secured).....	\$ 5,477,837.45	
Accounts and payrolls payable.....	8,560,263.98	
Power accounts—credit balances.....	336,652.40	
Northern Ontario Properties—current account.....	490,087.52	
Advances from the Province of Ontario for rural loans. . . .	1,377.64	
Consumers' deposits.....	406,334.10	
Debenture interest accrued.....	1,210,529.75	
Miscellaneous accruals.....	757,582.21	
		17,240,665.05
RURAL POWER DISTRICTS—rates suspense, net.....		3,800,537.77

RESERVES:

Renewals.....	\$ 81,809,012.61	
Contingencies and obsolescence.....	28,682,079.41	
Frequency standardization.....	54,217,144.83	
Stabilization of rates.....	21,780,348.87	
Fire insurance.....	269,800.48	
		\$186,758,386.20
Employers' liability insurance.....	2,135,947.25	
Pension fund.....	14,447,789.09	
Savings and retirement fund.....	535,663.18	
Miscellaneous.....	645,491.08	
		204,523,276.80

SINKING FUND RESERVE:

Represented by funded debt and provincial advances retired through sinking funds.....	108,217,100.43
	\$563,713,670.19

Commitments under uncompleted contracts for the construction of fixed assets, approximately \$38,000,000.00.

Auditors' Report

We have examined the balance sheet of the Southern Ontario and Thunder Bay systems of The Hydro-Electric Power Commission of Ontario as at October 31, 1948 and the attached statement of operations for the year ended on that date. In connection therewith we made a general review of the accounting methods and, without making a detailed audit of the transactions, examined or tested the accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate. We received all the information and explanations we required from its officers and employees.

We report that in our opinion the foregoing balance sheet and related statement of operations (as more fully reported upon by us to the Lieutenant-Governor in Council) have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Southern Ontario and Thunder Bay systems of the Commission at October 31, 1948 (subject to the trusts which prevail in respect thereto) and of the results of their operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON & CO.
Chartered Accountants.

Toronto, Canada,
July 21, 1949.

THE HYDRO-ELECTRIC POWER

SOUTHERN ONTARIO AND

STATEMENT OF OPERATIONS

	Southern Ontario system	
	S	c.
Cost of power:		
Cost of power purchased.....	12,561,818.99	
Operating, maintenance and administrative expenses.....	9,556,788.92	
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments)...	12,272,345.94	
Provision for renewals.....	2,533,999.35	
Provision for contingencies and obsolescence.....	1,002,511.33	
Provision for frequency standardization.....	7,447,030.47	
Provision for stabilization of rates.....		
Provision for sinking fund.....	3,108,757.87	
Total.....	48,483,252.87	
Amounts received from or billed against municipalities and other customers:		
Municipalities (at interim rates).....	34,062,397.31	
Rural power districts.....	4,611,533.78	
Companies.....	12,275,604.33	
Mining area.....		
Local distribution system.....	130,423.01	
Rural line operated by municipality.....	92.48	
Total.....	51,080,050.91	
Balance, credited to municipalities on annual adjustment of the cost of power.....	2,596,798.04	

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

For the Year Ended October 31, 1948

Thunder Bay system	Distribution in rural power districts	Elimination of inter-departmental billings	Total
\$ c.	\$ c.	\$ c.	\$ c.
76,521.87	4,640,251.71	4,640,251.71	12,638,340.86
665,651.39	2,660,535.62	.....	12,882,975.93
858,589.38	1,220,879.14	.....	14,351,814.46
178,384.63	577,164.45	.....	3,289,548.43
616,377.52	.....	.....	1,618,888.85
.....	.....	.....	7,447,030.47
110,480.23	.....	.....	110,480.23
216,671.34	307,477.96	.....	3,632,907.17
2,722,676.36	9,406,308.88	4,640,251.71	55,971,986.40
938,394.59	.....	.....	35,000,791.90
28,717.93	9,483,362.37	4,640,251.71	9,483,362.37
1,265,663.03	.....	.....	13,541,267.36
556,427.92	.....	.....	556,427.92
.....	.....	.....	130,423.01
.....	.....	.....	92.48
2,789,203.47	9,483,362.37	4,640,251.71	58,712,365.04
66,527.11	77,053.49	.....	2,740,378.64

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

FIXED ASSETS—October 31, 1948

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
POWER PLANTS				
Niagara Division:				
Niagara river:				
Queenston-Chippawa.....	1,184.97	47,939,722.97	28,727,137.21	76,668,045.15
Ontario Power.....		7,281,151.42	14,440,529.89	21,721,681.31
Toronto Power.....	20.32	3,823,379.60	7,618,491.39	11,441,891.31
Weir.....		394,000.00		394,000.00
Ottawa river:				
Chats Falls.....	36,907.15	817,741.54	6,380,934.46	7,235,583.15
Chenau.....	3,613,084.70			3,613,084.70
Des Joachims.....	25,155,967.49			25,155,967.49
LaCave.....	787,761.32			787,761.32
Power sites, etc.....	786,242.82			786,242.82
Welland canal:				
DeCew Falls.....	8,230.83	8,967,278.37	17,012,241.66	25,987,750.86
Long Lake diversion.....		258,400.78	620,831.97	879,232.75
Ogoki diversion.....		3,290,050.04	1,680,415.44	4,970,465.48
Steam generation.....	25,699.35			25,699.35
Georgian Bay Division:				
Muskoka river: (below lake)				
Bala No. 1 and No. 2.....		69,120.64	43,421.36	112,542.00
Ragged Rapids.....	1,545.37	70,889.49	1,261,109.55	1,333,544.41
Big Eddy.....		170,434.74	1,123,218.39	1,293,653.13
Land and water rights.....		17,224.03		17,224.03
Severn river:				
Wasdells.....	14,350.19	13,752.32	178,089.04	206,191.55
Big Chute.....	816.93	122,540.48	564,649.36	688,006.77
Beaver river:				
Eugenia.....	64.76	142,538.73	1,173,779.19	1,316,382.68
Saugeen river:				
Hanover.....		10,000.00		10,000.00
Walkerton.....	144.72	100,372.31	99,123.34	199,640.37
Muskoka river: (above lake)				
South Falls.....	84,943.50	17,934.95	468,770.37	571,648.82
Trethewey Falls.....		51,549.45	305,718.47	357,267.92
Hanna Chute.....	5.00	33,256.73	207,504.10	240,765.83
Hollow Lake dam.....		18,425.43	29,540.16	47,965.59
Sauble river:				
Lands and rights.....		4,200.00		4,200.00
Credit river:				
Caledon.....		8,000.00	27,812.66	35,812.66
Miscellaneous.....	3.00			3.00
Eastern Ontario Division:				
Fenelon river:				
Fenelon Falls.....	1,838.33	60,000.00	107,778.39	169,616.72
Otonabee river:				
Auburn.....		31,400.00	303,547.47	334,947.47
Lakefield.....		19,620.05	216,793.44	236,413.49
Trent river:				
Heely Falls.....			1,210,765.49	1,210,765.49
Seymour.....	419.57		315,877.79	316,297.36

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

FIXED ASSETS—October 31, 1948

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
POWER PLANTS—(Continued)				
Trent river—continued				
Ranney Falls.....		18,596.20	1,419,580.95	1,438,177.15
Crow river.....		1,000.00		1,000.00
Hagues Reach.....			573,262.30	573,262.30
Meyersburg.....	300.41		837,865.91	838,166.32
Sills Island.....	208.25	38,679.36	281,426.02	320,313.63
Frankford.....	1,192.70		252,965.93	254,158.63
Sidney.....			250,996.46	250,996.46
Mississippi river:				
High Falls.....	191.21	13,154.84	702,853.83	716,199.88
Galetta.....		20,000.00	139,507.87	159,507.87
Madawaska river:				
Barrett Chute.....		701,084.75	4,042,170.07	4,743,254.82
Calabogie.....		79,825.74	680,568.48	760,394.22
Stewartville.....		212,290.09	10,726,863.54	10,939,153.63
Bark Lake dam.....		609,716.88	800,751.42	1,410,468.30
Kaministeg Lake dam.....		24,563.39	1,795.46	26,358.85
Undeveloped sites.....		800,000.00		800,000.00
Miscellaneous.....	4,941.86	266.49	46,490.13	51,698.48
Intangible.....		2,217,761.29		2,217,761.29
	30,526,064.75	78,469,923.10	104,875,178.96	213,871,166.81
TRANSFORMER STATIONS				
Niagara Division.....	11,466,750.09		57,577,218.53	69,043,968.62
Georgian Bay Division.....	235,219.10		3,293,071.15	3,528,290.25
Eastern Ontario Division.....	671,318.34	76,296.26	6,847,464.55	7,595,079.15
	12,373,287.53	76,296.26	67,717,754.23	80,167,338.02
TRANSMISSION LINES				
Niagara Division:				
Lines.....	10,788,259.25		30,769,731.72	41,557,990.97
Right-of-way.....		9,234,092.82		9,234,092.82
Georgian Bay Division.....	88,362.53	226,993.81	4,435,302.42	4,750,658.76
Eastern Ontario Division.....	310,380.62	1,252,210.68	11,210,292.70	12,772,884.00
	11,187,002.40	10,713,297.31	46,415,326.84	68,315,626.55
LOCAL SYSTEMS				
Niagara Division.....			85,168.45	85,168.45
Georgian Bay Division.....			146,725.99	146,725.99
Eastern Ontario Division.....		703.00	37,878.38	38,581.38
		703.00	269,772.82	270,475.82
COMMUNICATIONS				
Southern Ontario system.....	144,058.94			144,058.94
Sub-total.....	54,230,413.62	89,260,219.67	219,278,032.85	362,768,666.14

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO SYSTEM
Embracing Niagara, Georgian Bay and Eastern Ontario Divisions
FIXED ASSETS—October 31, 1948

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
RURAL POWER DISTRICT	\$ c.	\$ c.	\$ c.	\$ c.
H-E.P.C. investment		37,559.97	32,273,352.27	32,310,912.24
Government grants			31,774,651.40	31,774,651.40
		37,559.97	64,048,003.67	64,085,563.64
RURAL LINE				
Georgian Bay Division			922.02	922.02
	54,230,413.62	89,297,779.64	283,326,958.54	426,855,151.80

	Cost statements	Transfers for cost purposes	Fixed assets as above
	\$ c.	\$ c.	\$ c.
Cost of Power schedules	362,592,458.74	176,207.40	362,768,666.14
Rural Operating schedules	32,487,119.64	176,207.40	32,310,912.24
Rural Line schedule	922.02		922.02

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
THUNDER BAY SYSTEM
FIXED ASSETS—October 31, 1948

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
POWER PLANTS:	\$ c.	\$ c.	\$ c.	\$ c.
Nipigon river:				
Cameron Falls	121,542.48	857,418.84	9,035,484.99	10,014,446.31
Alexander	832.28	77,090.06	6,850,547.19	6,928,469.53
Pine Portage	5,731,473.96			5,731,473.96
Virgin Falls dam		55,450.41	426,736.74	482,187.15
Aguasabon river:				
Aguasabon	651,683.05	2,258,758.91	9,053,071.09	11,963,513.05
	6,505,531.77	3,248,718.22	25,365,840.01	35,120,090.00
TRANSFORMER STATIONS	36,062.45	366,692.56	1,179,569.35	1,582,324.36
TRANSMISSION LINES	321,496.41	1,090,112.46	2,826,074.97	4,237,683.84
COMMUNICATIONS	40,696.86			40,696.86
LOCAL SYSTEMS		107,591.08		107,591.08
Sub-total	6,903,787.49	4,813,114.32	29,371,484.33	41,088,386.14
RURAL POWER DISTRICT:				
H-E.P.C. investment			444,593.32	444,593.32
Government grants			444,593.32	444,593.32
			889,186.64	889,186.64
	6,903,787.49	4,813,114.32	30,260,670.97	41,977,572.78

	Cost statements	Fixed assets as above
	\$ c.	\$ c.
Cost of Power schedules	41,088,386.14	41,088,386.14
Rural Operating schedules	444,593.32	444,593.32

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
ADMINISTRATIVE AND SERVICE BUILDINGS AND EQUIPMENT

FIXED ASSETS—October 31, 1948

Property	Under construction	In service		Total
		Non- depreciable	Depreciable	
ADMINISTRATIVE BUILDINGS: Toronto: University avenue.....	\$ c. 379,255.60	\$ c. 608,079.60	\$ c. 2,746,382.22	\$ c. 3,733,717.42
SERVICE BUILDINGS AND EQUIPMENT: Toronto: Strachan avenue..... 1379 Bloor street west..... Missington service centre..... Cobourg..... Hamilton.....			781,253.48 50,000.00 22,245.08 550,000.00	781,253.48 50,000.00 1,617,839.61 22,245.08 550,000.00
	1,617,839.61	550,000.00	853,498.56	3,021,338.17
	1,997,095.21	1,158,079.60	3,599,880.78	6,755,055.59

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

FIXED ASSETS—Summary, October 31, 1948

System or Property	Under construction	In service		Total
		Non- depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
Southern Ontario system.....	54,230,413.62	89,297,779.64	283,326,958.54	426,855,151.80
Thunder Bay system.....	6,903,787.49	4,813,114.32	30,260,670.97	41,977,572.78
Service and administrative buildings and equipment.....	1,997,095.21	1,158,079.60	3,599,880.78	6,755,055.59
	63,131,296.32	95,268,973.56	317,187,510.29	475,587,780.17
Less grants-in-aid of construction—Province of Ontario for rural power districts.....				32,219,244.72
				443,368,535.45

THE HYDRO-ELECTRIC POWER
CHANGES IN FIXED ASSETS—

Class of asset	Balance at beginning of year	Expenditure during year
SOUTHERN ONTARIO SYSTEM POWER PLANTS		
Niagara Division:	\$ c.	\$ c.
Queenston-Chippawa.....	75,356,512.74	1,870.42
Ontario Power.....	21,721,458.47	222.84
Toronto Power.....	11,441,890.50	0.81
Niagara Weir.....		
Chats Falls.....	7,196,208.76	35,479.01
Chenau.....	16,264.85	3,565,516.76
Des Joachims.....	6,964,934.88	18,069,162.93
LaCave.....		738,733.01
DeCew Falls.....	22,073,971.45	1,630,645.41
Ogoki diversion.....	4,869,606.35	51.30
Steam generation.....		25,699.35
Other properties.....	959,477.10	
Georgian Bay Division:		
Eugenia.....	1,323,927.70	7,208.68
Ragged Rapids.....	1,333,239.14	305.27
Big Eddy.....	1,293,653.13	
Big Chute.....	687,417.75	739.02
South Falls.....	487,901.19	83,747.63
Trethewey Falls.....	357,267.92	
Other properties.....	829,144.83	5,427.01
Eastern Ontario Division:		
Hagues Reach.....	573,262.30	
Auburn.....	332,592.65	2,396.90
Seymour.....	315,877.79	419.57
Ranney Falls.....	1,438,177.15	
Heely Falls.....	1,209,550.23	7,315.26
Meyersburg.....	837,865.91	300.41
High Falls.....	716,008.67	191.21
Barrett Chute.....	4,591,507.94	151,877.54
Bark Lake dam.....	1,410,499.79	31.49
Calabogie.....	759,875.48	1,268.74
Stewartville.....	6,120,835.06	4,818,318.57
Sills Island.....	320,105.38	208.25
Intangible and undeveloped sites.....	2,837,761.29	
Other properties.....	1,131,994.42	24,965.94
	179,508,790.82	29,172,040.35
TRANSFORMER STATIONS		
Niagara Division.....	59,936,654.54	9,701,529.69
Georgian Bay Division.....	2,812,625.55	733,361.46
Eastern Ontario Division.....	6,698,484.70	951,417.26
	69,447,764.79	11,386,308.41
TRANSMISSION LINES		
Niagara Division:		
Lines.....	31,623,829.13	10,237,817.11
Right-of-way.....	8,954,212.98	40,407.71
Georgian Bay Division.....	4,158,838.56	672,649.98
Eastern Ontario Division.....	11,436,926.28	1,374,663.24
	56,173,806.95	12,325,538.04

COMMISSION OF ONTARIO

During Year Ended October 31, 1948

Adjustments*	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves and operations	
\$ c.	\$ c.	\$ c.	\$ c.
*1,323,863.81	14,201.82		76,668,045.15
			21,721,681.31
			11,441,891.31
*394,000.00			394,000.00
4,416.85	521.47		7,235,583.15
*22,212.19			
9,090.90			3,613,084.70
*66,636.57			
55,233.11			25,155,967.49
*35,390.94			
13,637.37			787,761.32
*2,200,000.00			
85,296.00	250.00	1,912.00	25,987,750.86
*70,565.48			
30,242.35			4,970,465.48
			25,699.35
*786,241.82			
80,243.35			1,665,475.57
11,690.00	66.00	2,997.70	1,316,382.68
			1,333,544.41
			1,293,653.13
		150.00	688,006.77
			571,648.82
			357,267.92
*39,929.64	156.45		874,345.03
			573,262.30
	42.08		334,947.47
			316,297.36
			1,438,177.15
		6,100.00	1,210,765.49
			838,166.32
			716,199.88
	130.66		4,743,254.82
			1,410,468.30
		750.00	760,394.22
			10,939,153.63
			320,313.63
*180,000.00			3,017,761.29
	14.64	7,195.22	1,149,750.50
5,224,823.68	15,383.12	19,104.92	213,871,166.81
352,833.62	71,339.89	170,042.10	69,043,968.62
1,896.00	8,404.55	7,396.21	3,528,290.25
137,485.62	97,132.88	95,175.55	7,595,079.15
217,244.00	176,877.32	272,613.86	80,167,338.02
89,009.16	11,653.64	202,992.47	41,557,990.97
*266,222.74	16,195.68	10,554.93	9,234,092.82
43,007.51	4,789.26	33,033.01	4,750,658.76
29,310.13	3,147.99	6,247.40	12,772,884.00
104,895.94	35,786.57	252,827.81	68,315,626.55

**THE HYDRO-ELECTRIC POWER
CHANGES IN FIXED ASSETS—**

Class of asset	Balance at beginning of year	Expenditure during year
SOUTHERN ONTARIO SYSTEM—(Continued)		
COMMUNICATIONS	\$ c.	\$ c.
Southern Ontario system		82,181.49
LOCAL SYSTEMS		
Niagara Division	84,062.03	1,106.42
Georgian Bay Division	134,846.87	11,879.12
Eastern Ontario Division	35,467.23	3,114.15
	254,376.13	16,099.69
Sub-total	305,384,738.69	52,982,167.98
RURAL POWER DISTRICT		
H-E.P.C. investment	26,605,248.90	6,226,994.73
Government grants	26,127,672.09	6,168,235.68
	52,732,920.99	12,395,230.41
RURAL LINES		
Georgian Bay Division	922.02	
Southern Ontario system—Total	358,118,581.70	65,377,398.39
THUNDER BAY SYSTEM:		
POWER PLANTS	23,157,552.41	11,929,105.59
TRANSFORMER STATIONS	1,524,335.45	44,186.91
TRANSMISSION LINES	3,897,851.85	341,280.91
LOCAL SYSTEM	99,222.10	8,368.98
COMMUNICATIONS		40,696.86
Sub-total	28,678,961.81	12,363,639.25
RURAL POWER DISTRICT		
H-E.P.C. investment	297,158.73	147,836.43
Government grants	297,158.72	147,836.43
	594,317.45	295,672.86
Thunder Bay system—Total	29,273,279.26	12,659,312.11
SERVICE AND ADMINISTRATIVE BUILDINGS AND EQUIPMENT:		
Toronto—University avenue	3,292,692.80	470,217.96
—Strachan avenue	681,688.84	99,564.64
Islington—service centre	647,529.18	970,310.43
Other properties and equipment	622,245.08	
Total	5,244,155.90	1,540,093.03
Grand total	392,636,016.86	79,576,803.53
Less grants-in-aid of construction:		
Province of Ontario for rural power districts	26,424,830.81	5,794,413.91
Total fixed assets	366,211,186.05	73,782,389.62

The items marked * in the adjustment column represent surveys, investigations, water rights, intangibles etc., written off against reserve for contingencies in 1943 now re-established in the accounts. The other items in this column represent adjustments for equipment re-located.

COMMISSION OF ONTARIO
During Year Ended October 31, 1948

Adjustments*	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves and operations	
\$ c.	\$ c.	\$ c.	\$ c.
61,877.45			144,058.94
			85,168.45
			146,725.99
			38,581.38
			270,475.82
5,174,353.07	228,047.01	544,546.59	362,768,666.14
58,339.06	529,509.43	50,161.02	32,310,912.24
58,339.06	529,508.16	50,087.27	31,774,651.40
116,678.12	1,059,017.59	100,248.29	64,085,563.64
			922.02
5,291,031.19	1,287,064.60	644,794.88	426,855,151.80
33,432.00			35,120,090.00
60,600.00	36,694.13	10,103.87	1,582,324.36
		1,448.92	4,237,683.84
			107,591.08
			40,696.86
94,032.00	36,694.13	11,552.79	41,088,386.14
		401.84	444,593.32
		401.83	444,593.32
		803.67	889,186.64
94,032.00	36,694.13	12,356.46	41,977,572.78
		29,193.34	3,733,717.42
			781,253.48
			1,617,839.61
			622,245.08
		29,193.34	6,755,055.59
5,385,063.19	1,323,758.73	686,344.68	475,587,780.17
			32,219,244.72
*5,385,063.19	1,323,758.73	686,344.68	443,368,535.45

	\$ c.
Renewals.....	460,876.18
Contingencies.....	196,275.16
Operations.....	29,193.34

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

RURAL POWER DISTRICTS

CAPITAL EXPENDITURES AND GRANTS—Summary at October 31, 1948

Statement showing the total capital expenditures in Rural Power Districts to October 31, 1948; the grants payable to the Commission by the Province of Ontario in respect thereto; and the amounts paid to the Commission on account of such grants to October 31, 1948

	Accumulated total to October 31, 1947	During the year	Accumulated total to October 31, 1948
	\$ c.	\$ c.	\$ c.
Total capital expenditures less retirements—			
Southern Ontario district.....	52,732,920.99	11,352,642.65	64,085,563.64
Thunder Bay district.....	594,317.45	294,869.19	889,186.64
	53,327,238.44	11,647,511.84	64,974,750.28
Northern Ontario Properties district.....	1,799,030.52	823,203.26	2,622,233.78
	55,126,268.96	12,470,715.10	67,596,984.06
Less portion of expenditures not subject to Provincial grant*—			
Southern Ontario district.....	477,576.81	58,684.03	536,260.84
Thunder Bay district.....	262,951.85	36,214.89	299,166.74
Northern Ontario Properties district.....			
	*740,528.66	94,898.92	835,427.58
Balance of expenditures less retirements subject to Provincial grants (all districts).....	54,385,740.30	12,375,816.18	66,761,556.48
Grants payable by the Province as authorized by Order-in-Council (50%)—			
Southern Ontario district and Thunder Bay district.....	26,424,830.81	5,794,413.91	32,219,244.72
Northern Ontario Properties district.....	768,039.33	393,494.19	1,161,533.52
	27,192,870.14	6,187,908.10	33,380,778.24
Amounts paid by the Province to the Commis- sion on account of such authorized grants.	24,335,108.10	8,461,995.86	32,797,103.96
Balance owing by the Province.....	2,857,762.04	2,274,087.76	583,674.28

*Grants not paid by the Province in respect of a summer resort, street lighting systems, service buildings, generating plant (Manitoulin) and amounts paid for business already established.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Account with The Provincial Treasurer of the Province of Ontario

As at October 31, 1948

	Total	Northern Ontario Properties operated for the Province of Ontario	Southern Ontario and Thunder Bay systems operated on a "cost basis"
	\$ c.	\$ c.	\$ c.
Balance of advance repayable under the 1935 debt retirement plan.....	189,994,133.63	8,254,050.08	181,740,083.55
REPAYMENT OF ADVANCES—1934 TO 1948: Cash repayments made by the Commission under new retirement plan, equal to the maturities in the period November 1, 1934 to October 31, 1948, of Province of Ontario bonds allocated as issued for the Commission's purposes— Total to October 31, 1947.....\$101,234,146.29 During the year ended October 31, 1948.....14,895,628.15	116,129,774.44	3,103,254.88	113,026,519.56
Balance of advances at October 31, 1948.....	73,864,359.19	5,150,795.20	68,713,563.99
Payable in the following currencies: Canadian.....	2,172,201.07	408,980.65	1,763,220.42
Canadian or United States.....	8,718,026.01	4,799.73	8,713,226.28
Canadian, United States or Sterling.....	62,974,132.11	4,737,014.82	58,237,117.29
	73,864,359.19	5,150,795.20	68,713,563.99

THE HYDRO-ELECTRIC POWER

FUNDED DEBT as at

(Guaranteed as to principal and

Description	Date of maturity	Date of issue
2½% Debentures.....	Feb. 1, 1949	Feb. 1, 1943
2½% Serial debentures.....	Feb. 15, 1949	Feb. 15, 1941
2½% ".....	May 1, 1949	May 1, 1942
2% Debentures.....	Jan. 1, 1950	Jan. 1, 1945
3% Serial debentures.....	May 1, 1950/52	May 1, 1942
3% Debentures.....	Feb. 1, 1951	Feb. 1, 1943
3% ".....	Jan. 1, 1953	Jan. 1, 1943
3¼% ".....	Feb. 1, 1953	Feb. 1, 1938
2% ".....	April 1, 1956	April 1, 1947
4% ".....	Aug. 1, 1957	Aug. 1, 1917
4% ".....	June 1, 1958	June 1, 1918
4% ".....	Dec. 1, 1958	Dec. 1, 1918
3% ".....	Jan. 1, 1960	Jan. 1, 1945
3% ".....	Mar. 1, 1963	Mar. 1, 1948
3% ".....	July 2, 1964	July 2, 1948
2¾% ".....	April 1, 1967	April 1, 1947
2¾% ".....	Oct. 1, 1968	Oct. 1, 1947
4¾% ".....	Jan. 1, 1970	Jan 1, 1930
2¾% ".....	June 1, 1971	June 1, 1946
Total Funded Debt (at par of exchange).....		

Summary of Changes in Funded Debt during year ended October 31, 1948

Outstanding at October 31, 1947.....	\$132,914,000.00
Redemptions during the year.....	7,375,000.00
	\$125,539,000.00
New bond issues during the year.....	75,000,000.00
Outstanding at October 31, 1948.....	\$200,539,000.00

COMMISSION OF ONTARIO

October 31, 1948

interest by the Province of Ontario)

Principal outstanding October 31, 1948	Where payable	Remarks
\$ c.		
2,000,000.00	Canada	
1,875,000.00	Canada	
1,000,000.00	Canada	
5,000,000.00	Canada	
3,000,000.00	Canada	\$1,000,000.00 maturing annually.
6,000,000.00	Canada	
5,000,000.00	N.Y.	Callable on or after Jan. 1, 1951 at 101.
9,000,000.00	Canada	Callable on or after Feb. 1, 1950 at 100.
10,000,000.00	Canada	
8,000,000.00	C., N.Y., L.	
200,000.00	Toronto	
100,000.00	Toronto	
7,500,000.00	Canada	Callable on or after Jan. 1, 1955 at 100.
35,000,000.00	Canada	Callable in whole or in part on or after Mar. 1, 1961 at 100.
40,000,000.00	Canada	Callable in whole or in part on or after July 2, 1960 at 100.
15,000,000.00	Canada	Callable in whole or in part on or after April 1, 1964 at 100.
20,000,000.00	Canada	Callable in whole or in part on or after Oct. 1, 1965 at 100.
11,864,000.00	Canada	
20,000,000.00	Canada	Callable in whole or in part on or after June 1, 1961 at 100.
200,539,000.00		

Funded Debt issued to finance:	
Southern Ontario and Thunder Bay systems.....	\$161,214,000.00
Northern Ontario Properties.....	39,325,000.00
	<u>\$200,539,000.00</u>

Payable in the following currencies:	
Canadian.....	\$187,539,000.00
Canadian, United States, or Sterling.....	8,000,000.00
United States.....	5,000,000.00
	<u>\$200,539,000.00</u>

THE HYDRO-ELECTRIC POWER
POWER ACCOUNTS RECEIVABLE

System or property	Wholesale consumers			
	Interim power bills	Accumulated amount standing as a charge or credit on October 31, 1948		Net total for wholesale consume. s
		Charge	Credit	
SOUTHERN ONTARIO SYSTEM:	\$ c.	\$ c.	\$ c.	\$ c.
Municipalities.....	3,976,953. 80	9. 07	2,596,807. 11	1,380,155. 76
Companies.....	1,023,118. 18			1,023,118. 18
Local and rural.....				
	5,000,071. 98	9. 07	2,596,807. 11	2,403,273. 94
THUNDER BAY SYSTEM:				
Municipalities.....	137,714. 01		66,527. 11	71,186. 90
Companies.....	150,875. 94			150,875. 94
Local and rural.....				
	288,589. 95		66,527. 11	222,062. 84
Grand totals.....	5,288,661. 93	9. 07	2,663,334. 22	2,625,336. 78

SUNDRY ACCOUNTS RECEIVABLE

Arising from construction of works, sale of electrical equipment, etc.....				
----------------------------------------------------------------------------------	--	--	--	--

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
RENEWALS RESERVES—October 31, 1948

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.	\$ c.
Balances at November 1, 1947	70,001,255. 94	5,197,639. 25	884,746. 08	76,083,641. 27
Deduct:				
Amounts withdrawn in re- spect of equipment sold prior to November 1, 1947	15,161. 48			15,161. 48
	69,986,094. 46	5,197,639. 25	884,746. 08	76,068,479. 79
Add:				
Interest at 4% on reserve balances.....	2,799,443. 78	207,905. 57	18,904. 82	3,026,254. 17
Provision in the year—direct	3,104,629. 10	184,919. 33		3,289,548. 43
—indirect.....			56,357. 50	56,357. 50
Adjustments in respect to equipment transferred....	3,808. 91	7,505. 64		11,314. 55
Sub-total.....	75,893,976. 25	5,597,969. 79	960,008. 40	82,451,954. 44
Deduct:				
Amounts withdrawn for re- newals.....	65,749. 35	67. 18	894. 87	66,711. 40
Amounts withdrawn in re- spect of assets removed from service.....	450,464. 27	10,411. 91		460,876. 18
Excess reserve accumulated against assets removed from service—transferred to contingency reserve...	106,721. 95	8,042. 10		114,764. 05
Sundry charges.....	590. 20			590. 20
Balances at October 31, 1948.	75,270,450. 48	5,579,448. 60	959,113. 53	81,809,012. 61

COMMISSION OF ONTARIO

—October 31, 1948

Retail power consumers local and rural districts	Net total of power accounts receivable	Balance sheet figures		Debit balances three months or more overdue
		Debit balances	Credit balances	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	1,380,155.76	1,713,758.92	333,603.16	6,909.56
.....	1,023,118.18	1,023,118.18	.....	.....
1,856,613.30	1,856,613.30	1,856,613.30	.....	12,722.56
.....
1,856,613.30	4,259,887.24	4,593,490.40	333,603.16	19,632.12
.....
.....	71,186.90	74,236.14	3,049.24	.....
.....	150,875.94	150,875.94	.....	.....
24,829.15	24,829.15	24,829.15	.....	738.47
.....
24,829.15	246,891.99	249,941.23	3,049.24	738.47
.....
1,881,442.45	4,506,779.23	4,843,431.63	336,652.40	20,370.59

—October 31, 1948

	\$ c.	\$ c.
.....	1,196,890.18	10,197.42

**THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
CONTINGENCIES AND OBSOLESCENCE RESERVES—October 31, 1948**

	Southern Ontario system	Thunder Bay system	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.
Balances at November 1, 1947.....	60,761,737.86	5,500,393.61	66,262,131.47
Add:			
Credit arising from the re-establishment in the accounts of certain intangible assets etc., written off to contingency reserve in 1943. (After deducting sinking fund provision of \$174,415.56)	5,210,647.63	.....	5,210,647.63
Deduct:	65,972,385.49	5,500,393.61	71,472,779.10
Amount appropriated for and transferred to frequency standardization reserve account.....	45,000,000.00	.....	45,000,000.00
Add:	20,972,385.49	5,500,393.61	26,472,779.10
Interest at 4% on reserve balances.....	835,133.76	171,594.37	1,006,728.13
Provision in the year as per statement of operations.....	1,002,511.33	616,377.52	1,618,888.85
Excess renewals reserve accumulated against assets removed from service, transferred from renewals reserve....	106,721.95	8,042.10	114,764.05
Adjustments arising from the transfer of equipment, etc.....	11,451.82	.....	11,451.82
Sub-total.....	22,928,204.35	6,296,407.60	29,224,611.95
Deduct:			
Contingencies met with during the year..	341,355.26	4,902.12	346,257.38
Excess of cost of fixed assets retired over accumulated renewals reserve.....	194,330.61	1,944.55	196,275.16
Balances at October 31, 1948.....	22,392,518.48	6,289,560.93	28,682,079.41

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO SYSTEM
FREQUENCY STANDARDIZATION RESERVE—October 31, 1948

	Southern Ontario system	
	\$	c.
Appropriation from Southern Ontario system contingency and obsolescence reserve November 1, 1947.....	45,000,000.	00
Interest at 4% on the monthly balances at the credit of the account.....	1,799,948.	39
Provision in the year as per cost statement.....	7,447,030.	47
	54,246,978.	86
Less: Expenditures in the year.....	29,834.	03
Balance at October 31, 1948.....	54,217,144.	83

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
STABILIZATION OF RATES RESERVES—October 31, 1948

	Southern Ontario system	Thunder Bay		Totals for power undertakings operated on a "cost basis"
		System	Mining area	
	\$	\$	\$	\$
	c.	c.	c.	c.
Balances at November 1, 1947.....	19,979,577.83	494,287.21	362,547.12	20,836,412.16
Interest at 4% on reserve balances.....	799,183.11	19,771.49	14,501.88	833,456.48
Appropriation in the year as per cost statements.....			110,480.23	110,480.23
Balances at October 31, 1948.....	20,778,760.94	514,058.70	487,529.23	21,780,348.87

NOTE: The above amount of \$20,778,760.94 includes special accounts of \$1,672,099.13, \$397,730.22 and \$750,104.90 pertaining to municipalities of the Niagara, Georgian Bay and Eastern Ontario divisions respectively.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
SINKING FUND RESERVES—October 31, 1948

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	\$	\$	\$	\$
	c.	c.	c.	c.
Balances at November 1, 1947.....	94,148,087.23	5,184,699.84	1,013,984.45	100,346,771.52
Add: Sinking fund for period 1944 to 1947 inclusive on capital re-established in 1948 for certain intangible assets written off in 1943.....	174,415.56			174,415.56
	94,322,502.79	5,184,699.84	1,013,984.45	100,521,187.08
Interest at 4% on reserve balances.....	3,772,900.11	207,387.99	40,559.38	4,020,847.48
Provision in the year—direct.....	3,412,795.31	220,111.86		3,632,907.17
—indirect.....			42,158.70	42,158.70
Balances at October 31, 1948.....	101,508,198.21	5,612,199.69	1,096,702.53	108,217,100.43

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

STATEMENTS FOR MUNICIPALITIES
RECEIVING POWER UNDER COST CONTRACTS

For the year ended October 31, 1948

STATEMENTS FOR EACH SYSTEM

Cost of Power	Credit or Charge
Sinking Fund	Rural Operating

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1948			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Acton.....	27.50	376,233.99	2,379.8	13,211.50	12,024.95	14,990.17
Agincourt.....	27.50	58,692.16	336.5	1,868.09	2,003.50	2,247.92
Ailsa Craig.....	35.50	39,933.56	206.1	1,144.17	1,516.11	1,542.95
Alexandria.....	39.00	106,959.04	546.3	3,032.79	3,656.61	4,169.31
Alliston.....	37.50	124,355.27	733.1	4,069.82	4,778.57	4,802.60
Almonte.....	28.00	126,520.47	723.8	4,018.19	3,771.91	4,790.40
Alvinston.....	39.00	46,333.64	179.2	994.83	1,713.41	1,850.41
Amherstburg.....	31.50	307,601.50	1,653.7	9,180.54	10,462.33	12,334.62
Ancaster Township.....	26.00	95,047.70	553.5	3,072.77	3,510.58	3,849.04
Apple Hill.....	39.00	9,781.64	59.6	330.87	526.31	374.62
Arkona.....	39.00	34,436.39	118.0	655.08	1,302.79	1,395.97
Arnprior.....	25.00	282,510.43	2,025.4	11,244.05	8,243.34	10,855.80
Arthur.....	39.00	76,925.99	282.2	1,566.64	3,067.98	3,117.89
Athens.....	39.00	38,709.67	191.0	1,060.34	1,325.24	1,514.47
Aurora.....	27.00	310,112.99	2,068.7	11,484.42	10,111.16	12,272.09
Aylmer.....	29.00	280,184.95	1,641.8	9,114.48	8,956.00	11,209.53
Ayr.....	32.00	72,845.22	401.6	2,229.49	2,780.93	2,888.40
Baden.....	26.50	75,372.24	493.9	2,741.89	2,616.55	2,981.13
Barrie.....	26.50	772,622.78	6,373.2	35,380.93	25,726.11	29,676.61
Bath.....	39.00	20,647.59	80.4	446.34	623.75	827.72
Beachville.....	27.50	142,817.74	876.6	4,866.46	4,322.92	5,721.08
Beamsville.....	25.00	108,765.03	768.6	4,266.90	3,580.45	4,312.61
Beaverton.....	36.00	64,236.31	407.6	2,262.80	2,740.11	2,442.69
Beeton.....	39.00	39,363.66	164.9	915.45	1,682.89	1,569.01
Belle River.....	31.50	66,471.46	340.5	1,890.29	2,477.43	2,683.98
Belleville.....	22.00	1,301,772.45	10,638.1	59,057.60	37,538.40	49,441.84
Blenheim.....	30.50	151,622.12	839.0	4,657.72	5,399.05	5,937.57
Bloomfield.....	39.00	44,136.12	216.3	1,200.79	1,777.38	1,683.52
Blyth.....	39.00	45,784.62	219.4	1,218.00	1,682.09	1,828.36
Bobcaygeon.....	39.00	87,366.92	280.1	1,554.98	2,177.42	3,315.71
Bolton.....	31.00	64,065.35	341.4	1,895.29	2,129.39	2,556.61
Bothwell.....	35.50	41,794.38	200.5	1,113.08	1,739.68	1,606.37
Bowmanville.....	26.00	628,548.70	3,998.7	22,198.85	20,253.88	23,925.13
Bradford.....	39.00	96,654.42	564.4	3,133.28	3,786.52	3,705.88
Braeside.....	27.00	40,298.82	272.8	1,514.45	1,258.74	1,550.20
Brampton.....	25.00	582,567.63	4,258.6	23,641.68	18,428.50	23,144.85
Brantford.....	22.50	3,778,117.23	27,509.5	152,719.45	116,199.25	151,599.01
Brantford Township.....	27.00	401,248.25	2,854.9	15,849.02	12,861.50	15,902.28
Brechin.....	39.00	14,331.85	69.9	388.05	638.16	561.21
Bridgeport.....	29.00	53,547.29	318.7	1,769.27	2,068.99	2,135.54

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1948

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,339.27	9,124.71	3,830.07	461.80	56,058.87	65,443.59	9,384.72
515.81	1,295.53	572.42	65.30	8,437.97	9,253.52	815.55
381.85	807.66	397.78	39.99	5,750.53	7,314.77	1,564.24
1,331.74	2,123.55	1,076.83	106.01	15,284.82	21,305.71	6,020.89
1,420.27	2,779.09	1,254.42	142.26	18,962.51	27,490.61	8,528.10
1,311.09	2,807.44	1,225.24	140.45	17,783.82	20,266.80	2,482.98
486.82	748.12	470.31	34.77	6,229.13	6,989.76	760.63
2,890.81	6,533.43	3,158.10	320.90	44,238.93	52,091.31	7,852.38
899.19	2,148.83	973.70	107.41	14,346.70	14,392.08	45.38
107.94	228.02	97.81	11.57	1,654.00	2,322.45	668.45
377.31	501.88	351.68	22.90	4,561.81	4,601.99	40.18
2,623.99	7,584.83	2,774.30	393.03	42,933.28	50,635.21	7,701.93
1,129.05	1,156.80	789.47	54.76	10,773.07	11,004.47	231.40
490.70	744.12	389.89	37.06	5,487.70	7,448.33	1,960.63
2,620.46	7,858.52	3,141.41	401.44	47,086.62	55,854.23	8,767.61
2,599.69	6,401.17	2,857.87	318.60	40,820.14	47,612.20	6,792.06
695.03	1,578.46	739.16	77.93	10,833.54	12,850.39	2,016.85
647.51	1,882.02	765.37	95.84	11,538.63	13,087.89	1,549.26
6,233.45	23,304.44	7,700.67	1,236.73	126,785.48	168,888.47	42,102.99
294.04	324.95	208.53	15.60	2,709.73	3,135.27	425.54
1,297.81	3,388.55	1,460.69	170.11	20,887.40	24,105.61	3,218.21
924.36	2,883.20	1,100.85	149.15	16,919.22	19,214.57	2,295.35
681.45	1,545.16	640.48	79.10	10,233.59	14,672.70	4,439.11
541.22	657.36	398.92	32.00	5,732.85	6,432.41	699.56
642.31	1,355.60	683.31	66.07	9,666.85	10,725.21	1,058.36
10,076.27	38,979.53	12,620.51	2,064.35	205,649.80	234,037.11	28,387.31
1,401.72	3,288.73	1,522.13	162.81	22,044.11	25,588.28	3,544.17
542.51	850.40	434.37	41.97	6,447.00	8,434.05	1,987.05
467.15	871.57	468.23	42.58	6,492.82	8,556.91	2,064.09
1,211.45	1,167.75	835.30	54.35	10,208.26	10,922.59	714.33
625.94	1,335.69	654.25	66.25	9,130.92	10,582.89	1,451.90
404.74	801.32	412.20	38.91	6,038.48	7,116.26	1,077.70
6,217.26	15,226.74	6,096.62	775.96	93,142.52	103,966.62	10,824.10
1,106.04	2,149.74	972.39	109.52	14,744.33	22,012.23	7,267.97
398.38	1,027.22	397.35	52.94	6,093.40	7,364.90	1,271.58
4,707.83	15,941.91	5,920.09	826.39	90,958.47	106,464.37	15,505.90
30,207.28	103,271.98	38,415.50	5,338.28	587,074.19	618,963.00	31,888.81
3,266.99	10,746.89	4,079.46	554.00	62,152.14	77,081.39	14,929.25
183.18	273.27	144.75	13.56	2,175.06	2,727.05	551.99
491.08	1,226.63	545.31	61.84	8,174.98	9,241.81	1,066.83

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1948			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Brigden.....	39.00	39,500.01	166.7	925.44	1,477.64	1,571.44
Brighton.....	27.50	118,048.37	751.0	4,169.19	4,124.75	4,476.13
Brockville.....	24.50	1,304,340.69	9,368.9	52,011.61	36,952.05	50,215.05
Brussels.....	39.00	68,370.07	327.3	1,817.01	2,607.33	2,707.00
Burford.....	28.00	70,665.97	442.3	2,455.44	2,505.51	2,812.43
Burgessville.....	39.00	23,276.15	115.5	641.20	785.58	925.17
Burlington.....	24.50	311,929.72	2,316.4	12,859.55	12,784.74	12,467.29
Caledonia.....	27.00	82,901.54	535.7	2,973.95	3,203.97	3,303.48
Campbellville.....	39.00	19,260.68	85.7	475.77	691.48	769.23
Cannington.....	34.50	60,012.72	380.8	2,114.02	2,573.52	2,299.65
Cardinal.....	26.50	76,829.85	505.2	2,804.63	2,670.48	3,007.93
Carleton Place.....	25.50	376,715.36	2,534.6	14,070.88	10,280.16	14,112.29
Cayuga.....	39.00	57,846.40	280.6	1,557.76	2,144.55	2,298.59
Chatham.....	25.50	1,466,828.35	9,836.9	54,609.72	44,919.14	58,555.47
Chatsworth.....	37.50	24,410.39	144.2	800.53	1,139.80	939.44
Chesley.....	31.00	131,393.73	886.6	4,921.98	5,222.71	5,071.91
Chesterville.....	30.00	94,713.56	600.7	3,334.80	3,094.31	3,683.61
Chippawa.....	21.50	51,238.59	488.1	2,709.70	1,812.23	2,009.53
Clifford.....	39.00	37,684.42	162.3	901.01	1,373.82	1,518.64
Clinton.....	30.50	197,027.43	1,151.6	6,393.13	6,625.18	7,845.39
Cobden.....	39.00	61,388.29	246.5	1,368.45	1,829.29	2,440.40
Cobourg.....	26.50	508,883.69	3,266.0	18,131.26	18,172.28	19,477.93
Colborne.....	30.50	63,007.08	383.4	2,128.45	2,296.85	2,373.55
Coldwater.....	33.50	31,104.43	216.9	1,204.12	1,321.54	1,181.55
Collingwood.....	27.50	484,744.32	3,518.9	19,535.23	17,031.79	18,908.24
Comber.....	38.50	45,507.05	197.4	1,095.87	1,419.15	1,786.34
Cookstown.....	35.50	24,052.16	153.4	851.60	919.86	922.28
Cottam.....	38.00	28,204.35	135.9	754.45	1,040.58	1,127.16
Courtright.....	39.00	20,858.22	82.5	458.00	799.25	838.24
Creemore.....	38.50	37,695.59	230.8	1,281.29	1,804.05	1,452.84
Dashwood.....	34.00	37,006.87	168.8	937.10	1,179.30	1,435.51
Delaware.....	29.00	19,061.20	121.6	675.06	731.87	750.87
Delhi.....	31.00	145,452.26	853.3	4,737.11	5,043.00	5,757.63
Deseronto.....	35.00	78,956.72	398.2	2,210.61	3,246.70	2,992.44
Dorchester.....	33.00	28,192.09	162.8	903.79	999.66	1,105.16
Drayton.....	39.00	45,745.47	180.7	1,003.16	1,616.36	1,854.60
Dresden.....	32.50	149,041.18	736.5	4,088.69	5,446.04	5,828.07
Drumbo.....	31.50	27,770.43	153.1	849.94	1,122.90	1,104.93
Dublin.....	39.00	16,791.82	81.3	451.34	752.79	673.77
Dundalk.....	31.00	51,736.75	324.6	1,802.02	2,218.24	2,035.13

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1948

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
402.14	684.80	401.91	32.35	5,431.02	6,500.96	1,069.94
1,167.67	2,859.75	1,145.01	145.73	17,796.77	20,652.02	2,855.25
12,120.27	34,795.50	12,828.62	1,818.06	197,105.04	229,537.23	32,432.19
697.92	1,300.36	699.24	63.51	9,765.35	12,766.00	3,000.65
628.05	1,701.41	717.59	85.83	10,734.60	12,385.33	1,650.73
237.88	457.62	239.41	22.41	3,264.45	4,502.87	1,238.42
2,483.82	8,649.55	3,174.38	449.51	51,969.82	56,752.19	4,782.37
727.88	2,052.37	842.43	103.95	13,000.13	14,463.21	1,463.08
203.41	343.96	196.77	16.63	2,663.99	3,341.01	677.02
636.65	1,443.56	598.37	73.90	9,591.87	13,138.15	3,546.28
794.70	1,921.48	765.81	98.04	11,866.99	13,388.69	1,521.70
3,475.61	9,562.07	3,622.32	491.84	54,631.49	64,631.02	9,999.53
600.78	1,120.53	595.36	54.45	8,263.12	10,941.76	2,678.64
12,200.88	37,427.18	14,934.65	1,908.87	220,738.17	250,840.73	30,102.56
277.35	550.21	245.84	27.98	3,925.19	5,406.23	1,481.04
1,307.92	3,340.38	1,314.79	172.05	21,007.64	27,485.89	6,478.25
1,007.38	2,279.83	943.46	116.57	14,226.82	18,019.50	3,792.68
334.24	1,762.42	514.47	94.72	9,047.87	10,494.87	1,447.00
398.40	661.55	386.97	31.49	5,208.90	6,328.39	1,119.49
1,811.48	4,460.71	2,008.07	223.47	28,920.49	35,122.77	6,202.28
858.68	1,009.64	621.59	47.83	8,080.22	9,614.77	1,534.55
5,104.29	12,456.00	4,960.50	633.77	77,668.49	86,548.09	8,879.60
656.86	1,463.61	610.52	74.40	9,455.44	11,692.17	2,236.73
305.98	811.22	311.00	42.09	5,093.32	7,266.42	2,173.10
4,613.50	13,051.90	4,860.93	682.85	77,318.74	96,768.60	19,449.86
471.34	794.99	460.94	38.31	5,990.32	7,597.97	1,607.65
256.29	579.68	240.95	29.77	3,740.89	5,446.57	1,705.68
280.09	544.34	290.35	26.37	4,010.60	5,165.16	1,154.56
217.48	342.11	212.79	16.01	2,851.86	3,215.54	363.68
419.28	872.96	380.25	44.79	6,165.88	8,887.39	2,721.51
369.97	678.31	365.97	32.76	4,933.40	5,737.79	804.39
164.51	465.14	192.02	23.60	2,955.87	3,527.61	571.74
1,335.00	3,301.61	1,478.71	165.59	21,487.47	26,451.28	4,963.81
934.37	1,570.68	765.78	77.27	11,643.31	13,935.25	2,291.94
258.73	629.33	284.84	31.59	4,149.92	5,373.49	1,223.57
499.94	745.95	470.40	35.07	6,155.34	7,045.66	890.32
1,450.52	2,947.38	1,487.29	142.92	21,105.07	23,936.78	2,831.71
264.96	601.75	281.79	29.71	4,196.56	4,822.89	626.33
170.98	327.03	172.01	15.78	2,532.14	3,171.97	639.83
567.17	1,230.22	522.95	62.99	8,312.74	10,061.82	1,749.08

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1948			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Dundas.....	22.50	463,614.46	3,505.7	19,461.95	14,820.65	18,522.32
Dunnville.....	25.00	278,648.50	1,969.1	10,931.49	9,108.90	11,049.45
Durham.....	32.50	104,429.81	655.2	3,637.35	4,315.95	4,088.74
Dutton.....	31.50	57,966.24	309.5	1,718.20	1,927.16	2,312.04
East York Township..	24.00	2,043,572.27	15,026.5	83,419.87	61,751.69	80,785.27
Elmira.....	28.50	300,511.17	2,054.6	11,406.15	9,547.32	11,862.93
Elmvale.....	33.00	43,505.61	281.9	1,564.97	1,743.43	1,672.34
Elmwood.....	39.00	23,031.44	132.3	734.46	1,057.56	886.49
Elora.....	29.50	127,205.91	721.3	4,004.31	4,259.10	5,077.94
Embro.....	31.50	39,326.87	222.2	1,233.55	1,333.86	1,572.64
Erieau.....	39.00	55,543.79	250.3	1,389.54	1,902.69	2,175.80
Erie Beach.....	39.00	8,051.18	33.4	185.42	391.12	321.49
Essex.....	30.50	141,904.09	778.4	4,321.30	5,204.96	5,691.14
Etobicoke Township..	24.00	2,283,209.86	16,477.3	91,474.02	72,696.39	91,072.23
Exeter.....	30.00	208,473.35	1,195.5	6,636.84	6,632.77	8,154.40
Fergus.....	27.50	303,526.19	1,919.9	10,658.36	9,700.90	12,086.73
Finch.....	38.50	31,637.85	164.6	913.78	1,077.36	1,187.51
Flesherton.....	39.00	24,368.52	151.6	841.61	1,114.01	939.96
Fonthill.....	28.00	48,946.19	351.4	1,950.80	1,883.93	1,931.61
Forest.....	36.50	179,537.22	791.5	4,394.03	6,128.95	7,107.90
Forest Hill.....	22.00	1,154,982.35	8,816.1	48,942.73	34,572.21	46,244.76
Galt.....	22.50	2,051,706.83	14,592.8	81,012.18	61,648.52	81,731.13
Georgetown.....	29.00	518,000.26	3,111.1	17,271.32	17,188.55	20,656.53
Glencoe.....	39.00	90,398.08	300.3	1,667.12	2,222.86	3,504.95
Goderich.....	32.50	452,779.24	2,422.1	13,446.33	15,682.82	18,031.35
Grand Valley.....	39.00	48,986.20	246.0	1,365.67	2,259.33	1,929.99
Granton.....	38.00	23,241.84	92.1	511.30	653.03	923.88
Gravenhurst.....	25.00	216,324.69	1,720.5	9,551.39	7,603.58	8,499.00
Grimsby.....	26.00	175,407.61	1,201.7	6,671.25	5,917.56	6,934.96
Guelph.....	23.00	2,171,439.67	15,668.4	86,983.38	67,346.28	87,059.35
Hagersville.....	28.00	203,288.29	1,221.0	6,778.40	7,009.33	8,153.92
Hamilton.....	20.50	23,233,328.89	181,764.7	1,009,069.94	705,192.11	934,225.80
Hanover.....	27.00	272,918.24	2,093.5	11,622.10	10,074.43	10,542.81
Harriston.....	34.50	146,272.47	723.6	4,017.08	5,447.75	5,852.23
Harrow.....	33.50	164,624.42	848.1	4,708.24	6,080.59	6,597.82
Hastings.....	37.00	39,585.02	218.0	1,210.23	1,380.22	1,485.83
Havelock.....	39.00	53,749.59	277.7	1,541.66	1,844.52	2,035.67
Hensall.....	37.50	79,041.06	372.3	2,066.83	2,539.38	3,114.93
Hespeler.....	24.00	549,960.00	3,911.6	21,715.32	16,703.39	21,795.43
Highgate.....	36.50	23,244.39	115.8	642.87	1,013.11	905.81

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1948

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,637.54	13,091.80	4,711.97	680.29	73,565.94	78,878.24	5,312.30
2,368.13	7,386.55	2,820.29	382.11	43,282.70	49,226.23	5,943.53
1,144.82	2,483.18	1,055.56	127.14	16,598.46	21,295.08	4,696.62
565.07	1,227.81	591.39	60.06	8,281.61	9,748.98	1,467.37
15,985.56	56,200.84	20,613.79	2,915.93	315,841.09	360,636.00	44,794.91
2,518.34	7,764.42	3,060.88	398.70	45,761.34	58,556.81	12,795.47
455.61	1,065.96	434.71	54.70	6,882.32	9,302.70	2,420.38
266.96	507.33	232.58	25.67	3,659.71	5,161.33	1,501.62
1,202.17	2,816.16	1,294.29	139.97	18,514.00	21,278.59	2,764.59
375.85	867.66	403.15	43.12	5,743.59	6,997.71	1,254.12
563.80	1,005.37	558.96	48.57	7,547.59	9,761.71	2,214.12
84.57	135.76	81.32	6.48	1,193.20	1,301.27	108.07
1,317.51	3,068.74	1,456.20	151.05	20,908.80	23,740.94	2,832.14
18,617.71	61,988.24	23,187.44	3,197.46	355,838.57	395,454.60	39,616.03
1,901.53	4,628.76	2,087.37	231.99	29,809.68	35,865.00	6,055.32
2,693.95	7,361.35	3,089.90	372.56	45,218.63	52,796.09	7,577.46
364.86	642.06	309.41	31.94	4,463.04	6,335.18	1,872.14
270.00	571.79	247.10	29.42	3,955.05	5,913.69	1,958.64
415.26	1,313.42	496.16	68.19	7,922.99	9,839.90	1,916.91
1,779.63	3,237.78	1,817.15	153.59	24,311.85	28,890.67	4,578.82
8,819.24	32,839.74	11,739.13	1,710.78	181,447.03	193,954.93	12,507.90
16,468.69	54,906.52	20,706.05	2,831.77	313,641.32	328,337.06	14,695.74
4,753.39	12,001.74	5,279.39	603.72	76,547.20	90,220.92	13,673.72
1,001.65	1,295.94	892.17	58.27	10,526.42	11,711.36	1,184.94
4,367.15	9,490.10	4,614.55	470.01	65,162.29	78,716.90	13,554.61
622.76	963.22	497.90	47.74	7,591.13	9,594.95	2,003.82
254.69	375.60	236.76	17.87	2,937.39	3,501.39	564.00
1,882.01	6,320.01	2,179.92	333.87	35,702.04	43,011.87	7,309.83
1,516.23	4,529.31	1,771.01	233.19	27,107.13	31,244.86	4,137.73
17,534.40	59,023.86	22,092.25	3,040.49	336,999.03	360,372.62	23,373.59
1,887.85	4,729.27	2,080.76	236.94	30,402.59	34,188.69	3,786.10
176,713.92	675,610.23	235,901.65	35,271.85	3,701,441.80	3,726,174.97	24,733.17
2,327.40	7,736.37	2,721.00	406.25	44,617.86	56,524.49	11,906.63
1,450.15	2,895.11	1,496.32	140.42	21,018.22	24,965.06	3,946.84
1,585.73	3,374.12	1,692.07	164.58	23,873.99	28,412.45	4,538.46
443.98	841.77	388.19	42.30	5,707.92	8,064.45	2,356.53
632.04	1,080.60	529.50	53.89	7,610.10	10,829.64	3,219.54
798.30	1,476.78	798.72	72.25	10,722.69	13,961.25	3,238.56
4,414.43	14,717.69	5,550.26	759.05	84,137.47	93,877.40	9,739.93
226.11	457.74	234.06	22.47	3,457.23	4,226.10	768.87

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Com- mission during year	Share of capital cost of system	Average horse- power supplied in year after cor- rection for power factor	Share of operating		
	To October 31, 1948			Cost of power pur- chased	Operating main- tenance and adminis- trative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Holstein.....	39.00	13,404.78	44.0	244.27	407.04	548.51
Humberstone.....	24.00	111,205.11	805.4	4,471.19	4,220.36	4,427.52
Huntsville.....	28.00	250,458.70	1,749.8	9,714.05	9,263.43	9,900.38
Ingersoll.....	25.00	609,084.60	4,128.3	22,918.33	18,780.07	24,376.25
Iroquois.....	25.50	55,825.27	421.3	2,338.85	2,050.64	2,130.26
Jarvis.....	34.50	47,752.06	233.5	1,296.28	1,693.77	1,930.92
Kemptville.....	32.00	105,793.09	613.6	3,406.41	3,227.68	4,086.82
Kincardine.....	35.50	201,377.28	1,189.6	6,604.09	8,146.97	7,796.88
Kingston.....	22.50	2,854,012.51	22,408.4	124,400.63	80,592.73	108,273.81
Kingsville.....	32.50	162,828.77	850.8	4,723.23	6,067.69	6,515.98
Kirkfield.....	39.00	13,450.17	44.2	245.38	472.90	513.80
Kitchener.....	22.50	4,818,322.26	35,798.7	198,737.10	145,337.78	193,007.71
Lakefield.....	25.00	100,579.42	647.0	3,591.83	3,267.95	3,834.82
Lambeth.....	32.00	37,926.04	211.9	1,176.37	1,329.24	1,497.08
Lanark.....	39.00	45,246.70	171.8	953.75	1,213.30	1,826.33
Lancaster.....	39.00	18,584.35	81.5	452.45	671.84	737.31
La Salle.....	31.00	97,992.78	475.7	2,640.86	3,727.34	3,976.42
Leamington.....	32.00	546,437.10	2,855.2	15,850.70	19,202.31	21,943.09
Lindsay.....	26.50	787,851.42	4,794.1	26,614.53	25,570.73	30,041.09
Listowel.....	30.00	355,186.81	2,015.1	11,186.87	11,831.82	14,203.23
London.....	22.50	6,842,750.61	49,507.3	274,840.68	207,662.68	274,616.11
London Township.....	27.00	112,422.18	717.8	3,984.88	3,602.99	4,443.05
Long Branch.....	24.50	391,947.98	2,777.8	15,421.00	12,434.12	15,642.37
Lucan.....	31.00	56,918.49	335.6	1,863.09	1,951.28	2,222.88
Lucknow.....	39.00	103,991.91	554.4	3,077.76	4,498.70	4,032.42
Lynden.....	31.00	30,159.92	180.5	1,002.05	1,085.58	1,203.95
Madoc.....	39.00	78,592.72	435.9	2,419.90	3,077.05	2,937.18
Markdale.....	31.50	45,843.02	317.6	1,763.16	1,853.40	1,774.34
Markham.....	28.00	89,270.58	541.4	3,005.59	2,980.25	3,539.25
Marmora.....	33.00	40,801.87	226.3	1,256.31	1,759.52	1,545.55
Martintown.....	36.00	11,587.71	80.2	445.23	487.41	435.33
Maxville.....	39.00	34,413.51	185.5	1,029.81	1,334.21	1,337.18
Meaford.....	32.50	190,530.21	1,195.4	6,636.29	7,688.78	7,458.56
Merlin.....	34.00	28,152.03	143.9	798.86	1,111.53	1,079.44
Merritton.....	20.00	1,320,981.38	11,468.7	63,668.69	40,665.06	52,766.04
Midland.....	26.00	603,658.64	4,852.9	26,940.96	21,093.17	23,494.99
Mildmay.....	35.50	42,573.08	250.3	1,389.54	1,946.33	1,653.98
Millbrook.....	31.50	40,265.91	202.5	1,124.18	1,881.23	1,557.68
Milton.....	28.00	306,579.67	2,071.8	11,501.63	10,076.97	12,128.24
Milverton.....	30.50	107,875.41	583.8	3,240.98	3,790.68	4,332.43

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1948

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
204.69	182.80	138.18	8.54	1,716.95	1,716.95	.....
913.81	3,036.51	1,126.13	156.29	18,039.23	19,329.60	1,290.37
2,527.29	6,519.55	2,539.91	339.55	40,125.06	48,995.10	8,870.04
5,159.35	15,688.43	6,210.27	801.11	92,331.59	103,206.46	10,874.87
489.38	1,557.76	547.36	81.75	9,032.50	10,743.99	1,711.49
513.80	931.48	491.38	45.31	6,812.32	8,056.62	1,244.30
1,198.15	2,380.50	1,052.78	119.07	15,233.27	19,634.14	4,400.87
2,288.06	4,539.03	2,028.09	230.84	31,172.28	42,231.69	11,059.41
23,210.79	82,433.31	27,629.75	4,348.40	442,192.62	504,189.93	61,997.31
1,555.84	3,374.21	1,672.93	165.10	23,744.78	27,651.81	3,907.03
187.83	184.00	129.44	8.58	1,724.77	1,724.77	.....
37,713.70	134,072.12	49,004.00	6,946.82	750,925.59	805,470.39	54,544.80
979.55	2,456.00	974.10	125.55	14,978.70	16,176.05	1,197.35
356.14	822.18	384.88	41.12	5,524.77	6,781.33	1,256.56
658.24	706.86	464.70	33.34	5,789.84	6,700.18	910.34
250.03	322.33	187.69	15.82	2,605.83	3,176.53	570.70
974.90	1,926.82	1,009.09	92.31	14,163.12	14,745.15	582.03
5,221.25	11,323.49	5,614.18	554.06	78,600.96	91,367.19	12,766.23
8,213.52	18,301.14	7,634.04	930.31	115,444.74	127,044.74	11,600.00
3,275.31	7,888.75	3,631.29	391.03	51,626.24	60,453.00	8,826.76
54,794.03	186,287.35	69,626.41	9,607.00	1,058,220.26	1,113,913.50	55,693.24
972.06	2,744.98	1,134.76	139.29	16,743.43	19,379.69	2,636.26
3,242.91	10,477.42	3,981.02	539.04	60,659.80	68,056.93	7,397.13
511.34	1,299.17	570.21	65.12	8,352.85	10,404.87	2,052.02
1,269.17	2,140.73	1,051.97	107.58	15,963.17	21,622.24	5,659.07
281.62	697.77	308.83	35.03	4,544.77	5,594.74	1,049.97
881.01	1,694.17	763.60	84.59	11,688.32	17,000.41	5,312.09
441.87	1,184.77	459.55	61.63	7,415.46	10,003.88	2,588.42
802.40	2,084.43	903.99	105.06	13,210.85	15,159.90	1,949.05
457.38	879.54	396.42	43.91	6,250.81	7,467.34	1,216.53
112.93	300.55	114.60	15.56	1,880.49	2,888.10	1,007.61
416.89	724.10	347.04	36.00	5,153.23	7,234.49	2,081.26
2,088.71	4,530.52	1,925.85	231.97	30,096.74	38,852.12	8,755.38
263.71	567.06	277.55	27.92	4,070.23	4,892.90	822.67
9,425.69	42,024.83	13,360.58	2,225.53	219,685.36	229,374.67	9,689.31
5,153.51	17,738.88	6,067.18	941.72	99,546.97	126,174.97	26,628.00
478.82	956.74	428.87	48.57	6,805.71	8,885.93	2,080.22
484.13	808.78	394.15	39.30	6,210.85	6,378.75	167.90
2,627.72	7,823.32	3,117.54	402.04	46,873.38	58,009.47	11,136.09
1,024.08	2,312.75	1,104.80	113.29	15,692.43	17,804.62	2,112.19

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Com- mission during year	Share of capital cost of system	Average horse- power supplied in year after correc- tion for power factor	Share of operating		
	To October 31, 1948			Cost of power pur- chased	Operating main- tenance and adminis- trative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Mimico.....	23.00	487,505.40	3,690.4	20,487.32	15,198.74	19,433.43
Mitchell.....	28.00	194,063.94	1,194.6	6,631.84	6,517.87	7,764.89
Moorefield.....	39.00	24,360.63	93.6	519.62	882.18	985.73
Morrisburg.....	28.00	95,350.71	677.0	3,758.38	3,175.03	3,656.92
Mount Brydges.....	31.50	28,043.41	155.1	861.04	1,125.56	1,100.34
Mount Forest.....	38.50	162,201.35	872.5	4,843.70	6,860.77	6,341.15
Napanee.....	25.50	289,570.76	2,004.5	11,128.02	10,518.77	11,077.23
Neustadt.....	36.00	16,139.98	99.8	554.04	869.05	635.15
Newbury.....	39.00	16,717.77	73.9	410.26	684.92	654.76
Newcastle.....	29.50	54,827.27	348.8	1,936.37	1,909.21	2,062.00
New Hamburg.....	27.50	165,415.29	952.3	5,286.71	5,809.80	6,592.05
Newmarket.....	27.25	412,790.47	2,679.5	14,875.29	13,320.80	16,364.59
New Toronto.....	24.50	2,007,653.07	13,312.6	73,905.12	66,623.38	80,177.08
Niagara Falls.....	17.75	1,235,366.05	13,166.1	73,091.84	36,542.60	49,024.36
Niagara-on-the-Lake..	22.50	133,887.08	1,100.1	6,107.23	4,276.15	5,336.80
North York Township	24.00	2,591,376.68	18,440.0	102,369.98	80,595.46	103,471.47
Norwich.....	29.00	103,162.45	633.2	3,515.22	3,314.63	4,116.62
Norwood.....	31.50	46,045.79	296.2	1,644.36	1,599.90	1,715.26
Oil Springs.....	35.00	47,158.30	207.9	1,154.16	1,707.13	1,875.62
Omamee.....	30.00	48,925.51	303.5	1,684.89	1,897.93	1,837.48
Orangeville.....	37.50	203,825.93	1,248.8	6,932.73	8,095.82	7,830.04
Orono.....	37.00	27,875.40	160.7	892.13	1,242.02	1,043.04
Oshawa.....	26.00	3,725,154.51	23,962.9	133,030.45	112,742.03	141,289.30
Ottawa.....	19.00	4,864,206.29	41,730.3	231,666.50	137,062.69	186,519.93
Otterville.....	33.00	34,593.15	186.8	1,037.02	1,122.23	1,383.94
Owen Sound.....	27.00	1,294,042.77	9,275.0	51,490.33	47,728.74	50,821.03
Paisley.....	39.00	46,573.45	256.2	1,422.30	1,953.40	1,802.69
Palmerston.....	33.00	139,430.56	729.5	4,049.84	5,118.08	5,563.21
Paris.....	23.00	349,114.80	2,542.0	14,111.96	11,139.23	13,993.39
Parkhill.....	39.00	74,810.02	386.1	2,143.44	2,711.19	3,238.45
Parry Sound.....	32.00	57,118.44	350.2	1,944.14	2,646.82	2,305.65
Penetanguishene.....	28.50	214,153.15	1,554.6	8,630.39	7,595.68	8,305.76
Perth.....	25.00	342,801.15	2,416.6	13,415.80	9,995.18	13,174.36
Peterborough.....	22.00	2,999,502.84	23,087.9	128,172.88	85,923.20	114,144.70
Petrolia.....	32.50	277,468.75	1,339.1	7,434.04	9,066.85	11,056.28
Picton.....	31.50	348,741.05	2,122.1	11,780.88	11,526.33	13,075.32
Plattsville.....	36.00	59,329.81	297.3	1,650.47	2,494.29	2,354.52
Point Edward.....	32.00	418,342.40	2,238.5	12,427.07	19,439.91	16,852.65
Port Colborne.....	24.00	332,427.91	2,407.6	13,365.84	11,238.49	13,222.25
Port Credit.....	25.50	198,472.72	1,405.7	7,803.77	6,839.10	7,875.97

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1948

Costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,826.95	13,775.38	4,951.00	716.13	76,956.69	84,879.37	7,922.68
1,731.57	4,608.17	1,979.46	231.82	29,001.98	33,449.51	4,447.53
268.94	388.05	250.67	18.16	3,277.03	3,650.07	373.04
902.16	2,532.93	941.18	131.37	14,835.23	18,954.62	4,119.39
262.39	604.77	281.82	30.10	4,205.82	4,885.38	679.56
1,978.80	3,359.96	1,646.00	169.31	24,861.07	33,592.20	8,731.13
2,747.57	7,554.02	2,825.00	388.98	45,461.63	51,114.33	5,652.70
179.70	376.66	163.69	19.37	2,758.92	3,592.80	833.88
170.70	298.49	167.78	14.34	2,372.57	2,882.74	510.17
542.32	1,328.21	531.80	67.69	8,242.22	10,290.57	2,048.35
1,530.03	3,710.58	1,673.38	184.80	24,417.75	26,188.47	1,770.72
3,563.57	10,219.42	4,187.86	519.96	62,011.57	73,017.50	11,005.93
17,396.37	50,866.96	20,381.04	2,583.34	306,766.61	326,159.72	19,393.11
6,928.13	46,901.19	12,416.29	2,554.91	222,349.50	233,699.01	11,349.51
1,039.03	3,995.84	1,360.11	213.48	21,901.68	24,751.12	2,849.44
20,938.05	69,391.31	26,302.91	3,578.32	399,490.86	442,559.60	43,068.74
937.46	2,447.67	1,055.11	122.87	15,263.84	18,362.56	3,098.72
448.45	1,124.38	445.96	57.48	6,920.83	9,329.51	2,408.68
467.45	850.46	477.30	40.34	6,491.78	7,275.05	783.27
498.26	1,160.49	473.57	58.89	7,493.73	9,105.00	1,611.27
2,248.42	4,743.45	2,056.85	242.33	31,664.98	46,830.33	15,165.35
302.17	618.48	272.55	31.18	4,339.21	5,947.12	1,607.91
36,279.89	90,963.01	36,078.08	4,650.06	545,732.70	623,035.16	77,302.46
35,373.05	152,073.67	47,190.29	8,097.86	781,788.27	792,875.22	11,086.95
338.95	732.49	355.07	36.25	4,933.45	6,163.86	1,230.41
12,581.88	34,490.53	13,044.72	1,799.84	208,357.39	250,424.79	42,067.40
552.80	993.01	468.85	49.72	7,143.33	9,991.78	2,848.45
1,344.65	2,893.03	1,426.17	141.56	20,253.42	24,073.77	3,820.35
2,791.29	9,542.79	3,549.76	493.28	54,635.14	58,465.80	3,830.66
836.39	1,533.77	832.51	74.92	11,220.83	15,058.21	3,837.38
643.54	1,317.44	580.85	67.96	9,370.48	11,205.61	1,835.13
2,038.18	5,766.14	2,147.49	301.67	34,181.97	44,305.61	10,123.64
3,241.94	9,072.49	3,368.68	468.95	51,799.50	60,415.60	8,616.10
24,975.21	85,156.05	29,041.45	4,480.26	462,933.23	507,932.88	44,999.65
2,644.56	5,394.07	2,817.22	259.86	38,153.16	43,602.59	5,449.43
3,635.70	8,100.97	3,379.19	411.80	51,086.59	66,845.08	15,758.49
593.90	1,174.42	602.91	57.69	8,812.82	10,703.70	1,890.88
3,814.39	8,853.80	4,283.69	434.39	65,237.12	71,630.39	6,393.27
2,731.69	9,077.11	3,366.37	467.20	52,534.55	57,782.80	5,248.25
1,635.53	5,300.53	2,011.38	272.78	31,193.50	35,844.28	4,650.78

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1948			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Port Dalhousie.....	24.50	175,847.51	1,354.9	7,521.75	5,956.51	6,955.86
Port Dover.....	31.00	139,341.93	781.4	4,337.96	4,960.60	5,535.67
Port Elgin.....	34.00	142,547.01	746.6	4,144.76	5,989.25	5,634.36
Port Hope.....	26.00	641,312.40	4,079.9	22,649.64	20,707.99	24,433.49
Port McNicoll.....	32.00	22,055.08	162.2	900.46	970.48	844.59
Port Perry.....	39.00	91,058.39	498.0	2,764.66	3,762.72	3,412.70
Port Rowan.....	34.50	35,028.14	157.7	875.47	1,610.85	1,403.23
Port Stanley.....	32.50	178,701.66	881.6	4,894.21	5,787.22	7,152.72
Prescott.....	25.00	238,024.86	1,647.4	9,145.57	7,538.14	9,228.27
Preston.....	23.00	722,360.86	5,282.9	29,328.11	22,163.71	28,895.05
Priceville.....	39.00	5,180.61	25.0	138.79	264.73	203.32
Princeton.....	37.50	46,286.27	213.8	1,186.91	1,834.78	1,844.20
Queenston.....	23.00	21,636.40	188.4	1,045.90	801.05	852.84
Renfrew.....	28.00	179,238.91	1,123.6	6,237.69	5,696.70	6,953.61
Richmond.....	39.00	28,408.50	130.3	723.36	949.66	1,309.91
Richmond Hill.....	24.00	125,996.99	840.5	4,666.05	4,044.37	5,036.51
Ridgetown.....	30.50	131,623.65	746.9	4,146.42	4,652.30	5,134.06
Ripley.....	39.00	37,816.86	163.2	906.01	1,950.82	1,510.39
Riverside.....	30.00	363,364.89	1,993.2	11,065.28	11,998.72	14,595.75
Rockwood.....	31.00	38,352.64	223.5	1,240.77	1,325.50	1,525.11
Rodney.....	39.00	51,164.21	228.1	1,266.30	1,727.20	2,041.50
Rosseau.....	39.00	30,885.77	65.5	363.62	(16.81)	1,163.51
Russell.....	39.00	33,332.57	146.3	812.19	793.55	1,277.53
St. Catharines.....	19.50	3,448,610.99	29,990.6	166,493.35	106,613.12	137,986.33
St. Clair Beach.....	35.00	28,075.11	141.7	786.65	1,095.30	1,124.63
St. George.....	35.00	39,453.50	233.4	1,295.72	1,478.80	1,644.22
St. Jacobs.....	27.50	62,146.98	424.9	2,358.84	2,063.63	2,466.15
St. Marys.....	30.00	414,838.46	2,369.6	13,154.88	13,330.92	16,586.86
St. Thomas.....	23.50	1,493,659.75	10,074.1	55,926.52	47,051.71	60,131.80
Sarnia.....	28.00	2,719,347.13	14,252.9	79,125.25	80,443.56	109,881.78
Scarborough Township	25.00	1,331,872.58	9,011.7	50,028.61	42,659.60	52,384.50
Seaforth.....	29.00	228,958.41	1,409.4	7,824.31	7,718.74	9,131.91
Shelburne.....	36.50	65,303.29	400.1	2,221.16	2,749.86	2,514.56
Simcoe.....	25.00	500,976.68	3,450.1	19,153.31	16,195.67	20,012.02
Smiths Falls.....	23.50	608,525.27	4,595.6	25,512.55	17,935.53	23,283.01
Smithville.....	29.50	86,429.69	542.3	3,010.59	2,870.97	3,417.13
Southampton.....	32.50	147,775.19	794.9	4,412.90	6,160.12	5,870.82
Springfield.....	39.00	26,604.54	128.2	711.70	1,138.33	1,060.35
Stamford Township...	17.75	426,585.56	4,546.4	25,239.42	12,634.97	16,939.47
Stayner.....	32.50	63,399.87	429.3	2,383.26	2,527.13	2,430.40

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1948

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,395.03	5,048.99	1,776.01	262.92	28,391.23	33,194.63	4,803.40
1,311.01	3,045.09	1,416.23	151.63	20,454.93	24,224.69	3,769.76
1,757.25	2,887.22	1,443.25	144.88	21,711.21	25,384.69	3,673.48
6,343.51	15,535.94	6,220.42	791.71	95,099.28	106,078.28	10,979.00
205.92	602.40	220.51	31.47	3,712.89	5,190.68	1,477.79
1,042.56	1,909.01	893.08	96.64	13,688.09	19,422.33	5,734.24
364.68	642.50	356.08	30.60	5,222.21	5,440.37	218.16
1,811.57	3,538.09	1,826.35	171.08	24,839.08	28,650.63	3,811.55
2,319.76	6,173.60	2,354.20	319.68	36,439.86	41,185.21	4,745.35
5,739.27	19,837.66	7,339.66	1,025.16	112,278.30	121,506.49	9,228.19
66.21	101.14	52.14	4.85	821.48	975.00	153.52
482.61	859.09	472.54	41.49	6,638.64	8,015.61	1,376.97
156.84	685.02	218.12	36.56	3,723.21	4,332.23	609.02
1,904.17	4,311.81	1,775.20	218.04	26,661.14	31,461.47	4,800.33
466.30	521.38	334.29	25.29	4,279.61	5,083.30	803.69
1,064.68	3,192.87	1,276.34	163.10	19,117.72	20,171.40	1,053.68
1,191.21	2,906.60	1,316.94	144.94	19,202.59	22,780.18	3,577.59
516.87	648.07	385.10	31.67	5,885.59	6,365.44	479.85
3,373.68	7,857.93	3,728.81	386.79	52,233.38	59,795.75	7,562.37
357.46	867.74	390.49	43.37	5,663.70	6,927.72	1,264.02
542.60	927.90	524.40	44.26	6,985.64	8,896.54	1,910.90
470.75	294.31	293.11	12.71	2,555.78	2,555.78	.....
428.54	583.70	329.90	28.39	4,197.02	5,706.67	1,509.65
24,402.81	109,822.00	34,877.49	5,819.74	574,375.36	584,817.51	10,442.15
273.48	564.24	288.71	27.50	4,105.51	4,958.63	853.12
393.41	907.07	424.12	45.29	6,098.05	8,168.99	2,070.94
520.80	1,605.71	633.00	82.45	9,565.68	11,684.08	2,118.40
3,801.73	9,309.74	4,243.21	459.83	59,967.51	71,086.75	11,119.24
12,650.67	38,408.23	15,218.57	1,954.90	227,432.60	236,740.76	9,308.16
25,021.70	56,504.76	27,790.81	2,765.81	376,002.05	399,082.13	23,080.08
10,975.99	34,113.17	13,337.66	1,748.74	201,750.79	225,293.33	23,542.54
2,042.92	5,436.77	2,335.38	273.50	34,216.53	40,873.79	6,657.26
720.37	1,519.74	658.99	77.64	10,307.04	14,603.34	4,296.30
4,143.13	13,043.53	5,098.05	669.50	76,976.21	86,252.08	9,275.87
5,295.70	17,083.65	5,948.39	891.79	94,167.04	107,997.36	13,830.32
793.48	2,060.40	875.90	105.23	12,923.24	15,998.35	3,075.11
1,802.81	3,061.13	1,499.61	154.25	22,653.14	25,834.25	3,181.11
273.89	511.66	272.93	24.88	3,943.98	4,998.47	1,054.49
2,392.36	16,195.50	4,287.48	882.24	76,806.96	80,698.00	3,891.04
636.53	1,617.82	631.83	83.31	10,143.66	13,951.73	3,808.07

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1948			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Stirling	23.00	64,280.36	504.7	2,801.85	1,996.58	2,433.90
Stoney Creek	23.00	74,611.68	498.7	2,768.54	2,502.47	3,005.74
Stouffville	31.00	109,406.90	648.4	3,599.61	3,614.44	4,310.47
Stratford	25.00	1,406,678.64	9,360.4	51,964.42	43,819.92	56,374.32
Strathroy	26.50	319,431.68	2,037.8	11,312.88	10,053.87	12,619.64
Streetsville	29.00	116,654.45	763.9	4,240.80	4,141.41	4,624.73
Sunderland	39.00	41,875.57	235.4	1,306.83	1,474.32	1,629.73
Sutton	38.00	124,582.47	572.5	3,178.25	4,216.68	4,932.61
Swansea	25.00	520,551.10	3,860.7	21,432.73	25,102.74	20,875.40
Tara	36.50	35,255.22	191.5	1,063.11	1,594.71	1,371.76
Tavistock	29.00	139,069.79	828.2	4,597.77	4,802.35	5,554.96
Tecumseh	32.00	130,771.76	683.6	3,795.02	4,494.79	5,261.86
Teeswater	39.00	51,910.26	278.2	1,544.43	2,279.37	1,996.73
Thamesford	33.00	66,615.43	370.0	2,054.06	2,110.92	2,580.09
Thamesville	31.50	63,433.40	341.5	1,895.84	2,327.17	2,473.19
Thedford	39.00	53,433.55	198.2	1,100.31	2,287.07	2,153.60
Thornbury	50.00	32,738.37	168.1	933.21	1,685.98	1,237.83
Thorndale	39.00	33,436.26	163.6	908.23	1,099.20	1,322.24
Thornton	39.00	11,571.21	55.1	305.89	526.62	451.65
Thorold	22.50	447,239.93	3,781.7	20,994.17	14,230.57	17,669.97
Tilbury	30.00	191,734.55	1,088.0	6,040.05	6,685.30	7,472.93
Tillsonburg	26.50	354,501.18	2,327.7	12,922.27	11,307.33	14,163.40
Toronto	21.50	57,187,048.98	437,333.1	2,427,862.57	1,700,531.99	2,293,847.01
Toronto Township	26.00	982,893.47	6,756.8	37,510.49	32,742.46	39,040.85
Tottenham	39.00	33,330.21	132.7	736.68	1,483.52	1,333.70
Trafalgar Township	27.50	158,878.25	1,020.8	5,666.99	6,704.71	6,359.24
Trenton	21.00	859,718.50	7,205.9	40,003.68	23,968.99	32,749.24
Tweed	39.00	114,712.58	526.5	2,922.87	3,859.01	4,318.70
Uxbridge	39.00	111,830.58	586.2	3,254.30	4,802.91	4,196.43
Victoria Harbour	33.50	24,266.36	141.7	786.65	1,095.96	950.60
Walkerton	28.00	191,727.18	1,470.7	8,164.62	7,114.17	7,375.07
Wallaceburg	30.00	1,203,590.67	7,216.5	40,062.53	37,728.13	47,112.58
Wardsville	39.00	21,160.98	88.5	491.31	838.69	832.09
Warkworth	34.00	23,195.46	115.9	643.42	1,071.05	905.26
Waterdown	26.00	62,148.98	415.4	2,306.10	2,241.04	2,483.05
Waterford	27.00	96,643.85	632.7	3,512.45	3,270.84	3,844.89
Waterloo	23.00	1,140,845.31	8,372.7	46,481.19	35,160.75	45,663.42
Watford	35.50	120,232.05	551.4	3,061.11	3,938.34	4,793.83
Waubashene	30.00	26,351.89	193.8	1,075.88	1,124.11	1,013.10
Welland	19.50	1,447,782.18	12,665.0	70,309.97	45,072.46	57,907.08

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1948

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund				
			Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
522.78	1,856.63	622.30	97.94	10,136.10	11,608.28	1,472.18
643.28	1,896.89	758.63	96.77	11,478.78	11,469.71	†(9.07)
998.39	2,502.62	1,108.91	125.82	16,008.62	20,099.88	4,091.26
11,902.94	35,737.14	14,341.45	1,816.41	212,323.78	234,010.21	21,686.43
2,756.88	7,794.95	3,218.01	395.44	47,360.79	54,002.80	6,642.01
1,015.31	2,910.38	1,181.86	148.24	17,966.25	22,151.63	4,185.38
487.85	900.53	419.54	45.68	6,173.12	9,178.63	3,005.51
1,291.89	2,291.43	1,267.19	111.10	17,066.95	21,753.09	4,686.14
4,117.42	14,461.34	5,288.89	749.17	90,529.35	96,518.11	5,988.76
422.07	743.34	355.11	37.16	5,512.94	6,991.25	1,478.31
1,268.76	3,218.91	1,420.27	160.71	20,702.31	24,016.58	3,314.27
1,249.31	2,710.38	1,343.62	132.65	18,722.33	21,876.24	3,153.91
619.31	1,083.92	519.04	53.99	7,988.81	10,851.42	2,862.61
616.09	1,441.32	665.39	71.80	9,396.07	12,211.07	2,815.00
588.95	1,340.81	632.60	66.27	9,192.29	10,757.77	1,565.48
569.38	831.97	544.29	38.46	7,448.16	7,729.12	280.96
408.97	652.11	331.67	32.62	5,217.15	8,404.16	3,187.01
335.09	645.28	340.39	31.75	4,618.68	6,380.06	1,761.38
148.36	217.62	116.19	10.69	1,755.64	2,148.89	393.25
3,267.81	13,919.41	4,517.69	733.85	73,865.77	85,087.50	11,221.73
1,735.22	4,234.01	1,918.37	211.13	27,874.75	32,640.00	4,765.25
3,075.17	8,854.29	3,618.22	451.69	53,488.99	61,683.59	8,194.60
438,487.81	1,630,485.53	581,161.77	84,865.48	8,987,511.20	9,402,661.60	415,150.40
8,292.09	25,624.05	9,969.03	1,311.17	151,867.80	175,675.51	23,807.71
469.23	531.48	338.76	25.75	4,867.62	5,174.00	306.38
1,409.78	3,871.41	1,621.56	198.09	25,435.60	28,072.48	2,636.88
6,428.74	26,325.04	8,339.91	1,398.32	136,417.28	151,323.19	14,905.91
1,418.79	2,088.06	1,109.04	102.17	15,614.30	20,533.49	4,919.19
1,303.95	2,254.10	1,091.66	113.75	16,789.60	22,862.77	6,073.17
277.68	539.72	244.13	27.50	3,867.24	4,746.37	879.13
1,635.01	5,434.86	1,911.52	285.39	31,349.86	41,178.65	9,828.79
10,598.00	27,848.88	12,096.07	1,400.38	174,045.81	216,494.00	42,448.19
221.06	360.31	212.94	17.17	2,939.23	3,450.84	511.61
286.76	459.15	230.68	22.49	3,573.83	3,941.47	367.64
535.83	1,580.05	631.91	80.61	9,697.37	10,800.84	1,103.47
827.83	2,417.22	982.68	122.78	14,733.13	17,082.23	2,349.10
9,025.46	31,398.56	11,605.00	1,624.74	177,709.64	192,571.33	14,861.69
1,180.97	2,234.46	1,224.63	107.00	16,326.34	19,573.52	3,247.18
246.05	719.76	263.48	37.61	4,404.77	5,812.50	1,407.73
10,247.17	46,366.90	14,640.69	2,457.67	242,086.60	246,967.34	4,880.74

†Charged.

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1948			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Wellesley.....	32.00	38,175.15	207.3	1,150.83	1,365.44	1,515.73
Wellington.....	31.00	74,329.95	452.3	2,510.95	2,577.12	2,796.29
West Lorne.....	35.50	137,052.81	688.5	3,822.22	4,339.30	5,459.43
Weston.....	22.50	855,895.53	6,430.0	35,696.26	25,568.16	34,239.20
Westport.....	39.00	42,082.30	171.8	953.75	1,133.18	1,640.06
Wheatley.....	39.00	90,380.28	380.8	2,114.02	3,367.85	3,636.01
Whitby.....	25.50	324,326.77	2,119.3	11,765.33	9,313.90	12,265.30
Warton.....	39.00	128,546.29	630.6	3,500.79	5,535.12	5,059.70
Williamsburg.....	28.50	19,100.94	132.2	733.91	730.74	732.49
Winchester.....	28.50	100,017.01	602.8	3,346.45	2,871.60	3,762.43
Windermere.....	39.00	26,542.04	85.9	476.88	833.68	934.77
Windsor.....	25.00	9,905,944.00	61,237.0	339,958.30	288,874.81	399,292.07
Wingham.....	37.50	226,554.10	1,301.4	7,224.75	9,376.50	8,793.73
Woodbridge.....	27.50	175,037.33	1,136.2	6,307.63	5,754.06	6,942.40
Woodstock.....	24.50	1,468,918.77	10,557.5	58,610.14	45,286.21	58,582.62
Woodville.....	39.00	30,981.36	159.4	884.91	1,454.10	1,204.81
Wyoming.....	39.00	44,990.69	191.1	1,060.90	1,631.69	1,785.87
York Township.....	23.00	3,813,042.08	29,389.3	163,155.20	113,882.25	152,073.10
Zurich.....	39.00	49,049.90	195.8	1,086.98	1,512.86	1,910.25
Ontario Central Reformatory..		49,442.84	332.2	1,844.21	1,522.22	1,960.76
Totals—Municipalities.....		202,813,684.75	1,475,022.3	8,188,612.36	6,265,759.02	8,064,161.11
Totals—Rural power district...		31,083,458.65	187,224.5	1,073,222.90	1,005,494.15	1,239,127.65
Totals—Companies.....		73,858,503.09	592,333.6	3,288,350.54	2,253,419.11	2,944,420.31
Totals—Local distribution sys..		606,398.63	2,095.5	11,633.19	32,116.64	24,588.65
		308,362,045.12				
Non-operating capital.....		54,230,413.62				
Grand Totals.....		362,592,458.74	2,256,675.9	12,561,818.99	9,556,788.92	12,272,297.72

Contingencies and obsolescence
Frequency standardization....

(1) Operating, maintenance and administrative expenses have been credited with amounts totalling \$3,104.49 required to reduce the cost of power to certain municipalities to a maximum of \$39 per horsepower.

(2) The provision for frequency standardization included in the cost of power for the year was \$3.30 per horsepower on all municipal, rural power district and company loads.

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1948

costs and fixed charges			Revenue received in excess of cost of power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Credit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
367.17	810.68	388.22	40.23	5,557.84	6,633.88	1,076.04
774.90	1,726.62	720.23	87.77	11,018.34	14,022.33	3,003.99
1,377.05	2,757.33	1,399.83	133.60	19,021.56	24,440.56	5,419.00
6,625.56	23,999.37	8,697.59	1,247.76	133,578.38	144,674.99	11,096.61
552.24	696.50	417.72	33.34	5,360.11	6,698.24	1,338.13
946.54	1,555.15	928.90	73.90	12,474.57	14,852.16	2,377.59
3,102.01	8,002.83	3,133.87	411.26	47,171.98	54,042.37	6,870.39
1,645.36	2,463.42	1,303.86	122.37	19,385.88	24,592.74	5,206.86
186.15	495.42	188.92	25.65	3,041.98	3,768.87	726.89
1,019.24	2,311.72	966.26	116.97	14,160.73	17,178.83	3,018.10
338.10	351.05	237.38	16.67	3,155.19	3,348.47	193.28
84,721.80	236,078.14	101,272.72	11,883.18	1,438,314.66	1,530,924.79	92,610.13
2,625.99	4,990.46	2,287.87	252.54	35,046.76	48,803.44	13,756.68
1,511.08	4,333.39	1,775.79	220.48	26,403.87	31,246.64	4,842.77
11,863.40	39,786.46	14,947.58	2,048.71	227,027.70	258,658.96	31,631.26
381.70	617.91	311.12	30.93	4,823.62	6,215.61	1,391.99
455.22	784.13	457.90	37.08	6,138.63	7,453.86	1,315.23
28,855.10	109,363.81	38,751.12	5,703.06	600,377.52	675,952.75	75,575.23
519.62	801.90	488.03	38.00	6,281.64	7,634.56	1,352.92
421.13	1,263.42	503.05	64.46	7,450.33	8,970.52	1,520.19
1,655,995.05	5,528,687.63	2,048,615.54	286,231.44	31,465,599.27	34,062,397.31	2,596,798.04
297,233.66	720,622.15	312,164.61	36,331.34	4,611,533.78	4,611,533.78	.....
571,993.16	2,189,584.78	741,766.68	(286,069.75)	12,275,604.33	12,275,604.33	.....
8,759.04	10,638.02	6,194.44	(36,493.03)	130,423.01	130,423.01	.....
2,533,980.91	8,449,532.58	3,108,741.27	.....	48,483,160.39	51,079,958.43	2,596,798.04
.....	1,002,502.11	.....	.....	.....	.....	.....
.....	7,447,030.47	.....	.....	.....	.....	.....
.....	8,449,532.58	.....	.....	.....	.....	.....

(3) In 1947 and previous years the costs of generation, purchased power and certain lines and stations which serve many loads were accumulated in large groups and shared by all loads in the system or in a division or district. The balance of the costs was allocated by relating the cost of specific facilities to the customers served or deemed to be served thereby.

In 1948 the latter costs were allocated in groups based upon 1947 experience, adjusted for changes in loads, rather than by a detailed allocation of the cost of specific facilities.

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1948, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1947	
		Credit	Charge
		\$ c.	\$ c.
Acton.....	Jan. 1913	9,800.61	.....
Agincourt.....	Nov. 1922	1,115.71	.....
Ailsa Craig.....	Jan. 1916	1,656.82	.....
Alexandria.....	Jan. 1921	4,833.78	.....
Alliston.....	June 1918	8,128.90	.....
Almonte.....	Feb. 1945	3,364.34	.....
Alvinston.....	April 1922	757.81	.....
Amherstburg.....	Nov. 1925	9,259.68	.....
Ancaster Township.....	May 1923	737.89	.....
Apple Hill.....	April 1921	627.76	.....
Arkona.....	Dec. 1926	.....	.....
Arnprior.....	Jan. 1939	7,205.54	.....
Arthur.....	Dec. 1916	731.30	.....
Athens.....	Jan. 1929	1,523.94	.....
Aurora.....	April 1943	9,087.11	.....
Aylmer.....	Mar. 1918	6,191.68	.....
Ayr.....	Jan. 1915	2,099.12	.....
Baden.....	May 1912	2,620.63	.....
Barrie.....	April 1913	40,966.00	.....
Bath.....	Nov. 1931	.....	.....
Beachville.....	Aug. 1912	3,542.81	.....
Beamsville.....	May 1937	2,628.17	.....
Beaverton.....	Nov. 1914	4,583.06	.....
Beeton.....	Aug. 1918	666.38	.....
Belle River.....	Dec. 1922	1,305.81	.....
Belleville.....	April 1929	30,111.80	.....
Blenheim.....	Nov. 1915	4,803.69	.....
Bloomfield.....	April 1919	1,871.71	.....
Blyth.....	July 1924	1,391.74	.....
Bobcaygeon.....	July 1946	.....	.....
Bolton.....	Feb. 1915	1,858.81	.....
Bothwell.....	Sept 1915	1,371.19	.....
Bowmanville.....	Oct. 1931	12,654.23	.....
Bradford.....	Oct. 1918	7,079.77	.....
Braeside.....	Jan. 1945	1,242.09	.....
Brampton.....	Nov. 1911	16,312.32	.....
Brantford.....	Feb. 1914	40,926.60	.....
Brantford Township.....	May 1924	13,380.57	.....
Brechin.....	Jan. 1915	614.52	.....
Bridgeport.....	Mar. 1928	1,334.61	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1947, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1948

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1948		Accumulated amount standing as a credit or charge on October 31, 1948	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	9,800.61	9,384.72		9,384.72	
	1,115.71	815.55		815.55	
	1,656.82	1,564.24		1,564.24	
	4,833.78	6,020.89		6,020.89	
	8,128.90	8,528.10		8,528.10	
	3,364.34	2,482.98		2,482.98	
	757.81	760.63		760.63	
	9,259.68	7,852.38		7,852.38	
	737.89	45.38		45.38	
	627.76	668.45		668.45	
		40.18		40.18	
	7,205.54	7,701.93		7,701.93	
	731.30	231.40		231.40	
	1,523.94	1,960.63		1,960.63	
	9,087.11	8,767.61		8,767.61	
	6,191.68	6,792.06		6,792.06	
	2,099.12	2,016.85		2,016.85	
	2,620.63	1,549.26		1,549.26	
	40,966.00	42,102.99		42,102.99	
		425.54		425.54	
	3,542.81	3,218.21		3,218.21	
	2,628.17	2,295.35		2,295.35	
	4,583.06	4,439.11		4,439.11	
	666.38	699.56		699.56	
	1,305.81	1,058.36		1,058.36	
	30,111.80	28,387.31		28,387.31	
	4,803.69	3,544.17		3,544.17	
	1,871.71	1,987.05		1,987.05	
	1,391.74	2,064.09		2,064.09	
		714.33		714.33	
	1,858.81	1,451.97		1,451.97	
	1,371.19	1,077.78		1,077.78	
	12,654.23	10,824.10		10,824.10	
	7,079.77	7,267.90		7,267.90	
	1,242.09	1,271.50		1,271.50	
	16,312.32	15,505.90		15,505.90	
	40,926.60	31,888.81		31,888.81	
	13,380.57	14,929.25		14,929.25	
	614.52	551.99		551.99	
	1,334.61	1,066.83		1,066.83	

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1948, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1947	
		Credit	Charge
		\$ c.	\$ c.
Brigden	Jan. 1918	1,097.81	
Brighton	Nov. 1929	3,171.30	
Brockville	April 1915	32,540.90	
Brussels	July 1924	3,154.14	
Burford	June 1915	1,656.59	
Burgessville	Nov. 1916	1,156.78	
Burlington	Jan. 1945	6,130.08	
Caledonia	Oct. 1912	1,864.50	
Campbellville	Jan. 1925	543.97	
Cannington	Nov. 1914	3,473.86	
Cardinal	July 1930	1,469.04	
Carleton Place	May 1919	12,249.40	
Cayuga	Nov. 1924	2,974.90	
Chatham	Feb. 1915	33,436.15	
Chatsworth	Dec. 1915	1,673.63	
Chesley	July 1916	6,766.07	
Chesterville	April 1914	2,823.65	
Chippawa	Sept. 1919	1,500.82	
Clifford	May 1924	799.81	
Clinton	Mar. 1914	5,772.51	
Cobden	Nov. 1925	1,243.01	
Cobourg	Jan. 1932	9,775.72	
Colborne	Jan. 1933	2,293.85	
Coldwater	Mar. 1913	2,435.43	
Collingwood	Mar. 1913	17,799.44	
Comber	May 1915	1,992.77	
Cookstown	May 1918	1,569.76	
Cottam	Nov. 1926	1,167.04	
Courtright	Dec. 1923	296.18	
Creemore	Nov. 1914	2,601.36	
Dashwood	Sept. 1917	791.45	
Delaware	Mar. 1915	523.32	
Delhi	May 1938	5,152.39	
Deseronto	Jan. 1931	2,172.99	
Dorchester	Dec. 1914	1,172.90	
Drayton	Mar. 1918	582.03	
Dresden	April 1915	3,480.41	
Drumbo	Dec. 1914	625.56	
Dublin	Oct. 1917	415.03	
Dundalk	Dec. 1915	1,871.02	

S.O.—CREDIT OR CHARGE

power supplied to it to October 31, 1947, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1948

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1948		Accumulated amount standing as a credit or charge on October 31, 1948	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	1,097.81	1,069.94		1,069.94	
	3,171.30	2,855.25		2,855.25	
	32,540.90	32,432.19		32,432.19	
	3,154.14	3,000.65		3,000.65	
	1,656.59	1,650.73		1,650.73	
	1,156.78	1,238.42		1,238.42	
	6,130.08	4,782.37		4,782.37	
	1,864.50	1,463.08		1,463.08	
	543.97	677.02		677.02	
	3,473.86	3,546.28		3,546.28	
	1,469.04	1,521.70		1,521.70	
	12,249.40	9,999.53		9,999.53	
	2,974.90	2,678.64		2,678.64	
	33,436.15	30,102.56		30,102.56	
	1,673.63	1,481.04		1,481.04	
	6,766.07	6,478.25		6,478.25	
	2,823.65	3,792.68		3,792.68	
	1,500.82	1,447.00		1,447.00	
	799.81	1,119.49		1,119.49	
	5,772.51	6,202.28		6,202.28	
	1,243.01	1,534.55		1,534.55	
	9,775.72	8,879.60		8,879.60	
	2,293.95	2,236.73		2,236.73	
	2,435.43	2,173.10		2,173.10	
	17,799.44	19,449.86		19,449.86	
	1,992.77	1,607.65		1,607.65	
	1,569.76	1,705.68		1,705.68	
	1,167.04	1,154.56		1,154.56	
	296.18	363.68		363.68	
	2,601.36	2,721.51		2,721.51	
	791.45	804.39		804.39	
	523.32	571.74		571.74	
	5,152.39	4,963.81		4,963.81	
	2,172.99	2,291.94		2,291.94	
	1,172.90	1,223.57		1,223.57	
	582.03	890.32		890.32	
	3,480.41	2,831.71		2,831.71	
	625.56	626.33		626.33	
	415.03	639.83		639.83	
	1,871.02	1,749.08		1,749.08	

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1948, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1947	
		Credit	Charge
		\$ c.	\$ c.
Dundas	Jan. 1911	8,356.94	.....
Dunnville	June 1918	6,694.15	.....
Durham	Dec. 1915	4,657.00	.....
Dutton	Sept. 1915	1,630.59	.....
East York Township	July 1925	47,840.71	.....
Elmira	Nov. 1913	13,202.57	.....
Elmvale	June 1913	2,446.86	.....
Elmwood	April 1918	1,689.86	.....
Elora	Nov. 1914	2,745.48	.....
Embro	Jan. 1915	1,273.70	.....
Erieau	July 1924	1,977.07	.....
Erie Beach	July 1925	59.97	.....
Essex	Nov. 1923	4,102.41	.....
Etobicoke Township	Aug. 1917	44,587.90	.....
Exeter	June 1916	6,040.37	.....
Fergus	Nov. 1914	8,208.89	.....
Finch	Feb. 1928	1,871.46	.....
Flesherton	Dec. 1915	1,880.23	.....
Fonthill	June 1926	1,740.32	.....
Forest	Mar. 1917	4,839.04	.....
Forest Hill	Jan. 1938	16,246.87	.....
Galt	May 1911	21,192.04	.....
Georgetown	Sept. 1913	13,786.86	.....
Glencoe	Aug. 1920	1,679.12	.....
Goderich	Feb. 1914	13,150.86	.....
Grand Valley	Dec. 1916	2,132.56	.....
Granton	July 1916	731.81	.....
Gravenhurst	Nov. 1915	7,086.70	.....
Grimsby	Jan. 1942	4,368.13	.....
Guelph	Dec. 1910	29,205.15	.....
Hagersville	Sept. 1913	4,856.04	.....
Hamilton	Feb. 1911	100,170.32	.....
Hanover	Sept. 1916	11,869.18	.....
Harriston	July 1916	4,016.78	.....
Harrow	Nov. 1923	5,462.24	.....
Hastings	June 1931	2,532.87	.....
Havelock	Feb. 1921	3,042.72	.....
Hensall	Jan. 1917	2,554.28	.....
Hespeler	Feb. 1911	10,857.91	.....
Highgate	Dec. 1916	1,070.48	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1947, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1948

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1948		Accumulated amount standing as a credit or charge on October 31, 1948	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	8,356.94	5,312.30	.....	5,312.30	.....
.....	6,694.15	5,943.53	.....	5,943.53	.....
.....	4,657.00	4,696.62	.....	4,696.62	.....
.....	1,630.59	1,467.37	.....	1,467.37	.....
.....	47,840.71	44,794.91	.....	44,794.91	.....
.....	13,202.57	12,795.47	.....	12,795.47	.....
.....	2,446.86	2,420.38	.....	2,420.38	.....
.....	1,689.86	1,501.62	.....	1,501.62	.....
.....	2,745.48	2,764.59	.....	2,764.59	.....
.....	1,273.70	1,254.12	.....	1,254.12	.....
.....	1,977.07	2,214.12	.....	2,214.12	.....
.....	59.97	108.07	.....	108.07	.....
.....	4,102.41	2,832.14	.....	2,832.14	.....
.....	44,587.90	39,616.03	.....	39,616.03	.....
.....	6,040.37	6,055.32	.....	6,055.32	.....
.....	8,208.89	7,577.46	.....	7,577.46	.....
.....	1,871.46	1,872.14	.....	1,872.14	.....
.....	1,880.23	1,948.64	.....	1,958.64	.....
.....	1,740.32	1,916.91	.....	1,916.91	.....
.....	4,839.04	4,578.82	.....	4,578.82	.....
.....	16,246.87	12,507.90	.....	12,507.90	.....
.....	21,192.04	14,695.74	.....	14,695.74	.....
.....	13,786.86	13,673.72	.....	13,673.72	.....
.....	1,679.12	1,184.94	.....	1,184.94	.....
.....	13,150.86	13,554.61	.....	13,554.61	.....
.....	2,132.56	2,003.82	.....	2,003.82	.....
.....	731.81	564.00	.....	564.00	.....
.....	7,086.70	7,309.83	.....	7,309.83	.....
.....	4,368.13	4,137.73	.....	4,137.73	.....
.....	29,205.15	23,373.59	.....	23,373.59	.....
.....	4,856.04	3,786.10	.....	3,786.10	.....
.....	100,170.32	24,733.17	.....	24,733.17	.....
.....	11,869.18	11,906.63	.....	11,906.63	.....
.....	4,016.78	3,946.84	.....	3,946.84	.....
.....	5,462.24	4,538.46	.....	4,538.46	.....
.....	2,532.87	2,356.53	.....	2,356.53	.....
.....	3,042.72	3,219.54	.....	3,219.54	.....
.....	2,554.28	3,238.56	.....	3,238.56	.....
.....	10,857.91	9,739.93	.....	9,739.93	.....
.....	1,070.48	768.87	.....	768.87	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1948, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1947	
		Credit	Charge
		\$ c.	\$ c.
Holstein.....	May 1916	.....	.....
Humberstone.....	Oct. 1924	1,960.27	.....
Huntsville.....	Sept. 1916	8,356.32	.....
Ingersoll.....	May 1911	12,656.40	.....
Iroquois.....	Feb. 1940	1,954.00	.....
Jarvis.....	Feb. 1924	902.14	.....
Kemptville.....	Dec. 1921	4,235.80	.....
Kincardine.....	Mar. 1921	11,658.34	.....
Kingston.....	Nov. 1937	64,448.69	.....
Kingsville.....	Nov. 1923	5,732.00	.....
Kirkfield.....	June 1920	.....	.....
Kitchener.....	Jan. 1911	69,528.42	.....
Lakefield.....	Aug. 1920	1,465.73	.....
Lambeth.....	April 1915	1,410.78	.....
Lanark.....	Sept. 1921	842.16	.....
Lancaster.....	May 1921	354.46	.....
La Salle.....	Nov. 1925	1,337.73	.....
Leamington.....	Nov. 1923	15,735.75	.....
Lindsay.....	Mar. 1928	12,045.07	.....
Listowel.....	June 1916	9,705.43	.....
London.....	Jan. 1911	81,101.37	.....
London Township.....	Jan. 1925	2,819.97	.....
Long Branch.....	Jan. 1931	7,364.73	.....
Lucan.....	Feb. 1915	1,862.77	.....
Lucknow.....	Jan. 1921	6,589.63	.....
Lynden.....	Nov. 1915	1,008.55	.....
Madoc.....	Jan. 1930	4,316.82	.....
Markdale.....	Mar. 1916	2,289.75	.....
Markham.....	April 1920	2,259.08	.....
Marmora.....	Jan. 1921	1,289.53	.....
Martintown.....	May 1921	901.13	.....
Maxville.....	Feb. 1921	1,858.13	.....
Meaford.....	Jan. 1924	8,553.61	.....
Merlin.....	Dec. 1922	1,026.35	.....
Merritton.....	Nov. 1920	12,339.41	.....
Midland.....	July 1911	27,059.85	.....
Mildmay.....	Dec. 1932	2,226.73	.....
Millbrook.....	Dec. 1938	315.90	.....
Milton.....	April 1913	11,346.71	.....
Milverton.....	June 1916	2,441.13	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1947, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1948

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1948		Accumulated amount standing as a credit or charge on October 31, 1948	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	1,960.27	1,290.37	.....	1,290.37	.....
.....	8,356.32	8,870.04	.....	8,870.04	.....
.....	12,656.40	10,874.87	.....	10,874.87	.....
.....	1,954.00	1,711.49	.....	1,711.49	.....
.....	902.14	1,244.30	.....	1,244.30	.....
.....	4,235.80	4,400.87	.....	4,400.87	.....
.....	11,658.34	11,059.41	.....	11,059.41	.....
.....	64,448.69	61,997.31	.....	61,997.31	.....
.....	5,732.00	3,907.03	.....	3,907.03	.....
.....	69,528.42	54,544.80	.....	54,544.80	.....
.....	1,465.73	1,197.35	.....	1,197.35	.....
.....	1,410.78	1,256.56	.....	1,256.56	.....
.....	842.16	910.34	.....	910.34	.....
.....	354.46	570.70	.....	570.70	.....
.....	1,337.73	582.03	.....	582.03	.....
.....	15,735.75	12,766.23	.....	12,766.23	.....
.....	12,045.07	11,600.00	.....	11,600.00	.....
.....	9,705.43	8,826.76	.....	8,826.76	.....
.....	81,101.37	55,693.24	.....	55,693.24	.....
.....	2,819.97	2,636.26	.....	2,636.26	.....
.....	7,364.73	7,397.13	.....	7,397.13	.....
.....	1,862.77	2,052.02	.....	2,052.02	.....
.....	6,589.63	5,659.07	.....	5,659.07	.....
.....	1,008.55	1,049.97	.....	1,049.97	.....
.....	4,316.82	5,312.09	.....	5,312.09	.....
.....	2,289.75	2,588.42	.....	2,588.42	.....
.....	2,259.08	1,949.05	.....	1,949.05	.....
.....	1,289.53	1,216.53	.....	1,216.53	.....
.....	901.13	1,007.61	.....	1,007.61	.....
.....	1,858.13	2,081.26	.....	2,081.26	.....
.....	8,553.61	8,755.38	.....	8,755.38	.....
.....	1,026.35	822.67	.....	822.67	.....
.....	12,339.41	9,689.31	.....	9,689.31	.....
.....	27,059.85	26,628.00	.....	26,628.00	.....
.....	2,226.73	2,080.22	.....	2,080.22	.....
.....	315.90	167.90	.....	167.90	.....
.....	11,346.71	11,136.09	.....	11,136.09	.....
.....	2,441.13	2,112.19	.....	2,112.19	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1948, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1947	
		Credit	Charge
		\$ c.	\$ c.
Mimico.....	May 1912	10,088.20	.....
Mitchell.....	Sept. 1911	4,252.86	.....
Moorefield.....	Mar. 1918	427.78	.....
Morrisburg.....	June 1938	3,636.37	.....
Mount Brydges.....	Mar. 1915	843.52	.....
Mount Forest.....	Dec. 1915	8,855.99	.....
Napanee.....	Nov. 1929	6,278.19	.....
Neustadt.....	Dec. 1918	673.11	.....
Newbury.....	Mar. 1921	517.05	.....
Newcastle.....	Jan. 1937	2,250.70	.....
New Hamburg.....	Mar. 1911	2,315.59	.....
Newmarket.....	April 1945	11,907.53	.....
New Toronto.....	Feb. 1914	33,339.84	.....
Niagara Falls.....	Dec. 1915	12,031.57	.....
Niagara-on-the-Lake.....	Aug. 1919	2,855.84	.....
North York Township.....	Nov. 1923	43,090.47	.....
Norwich.....	May 1912	3,291.67	.....
Norwood.....	Feb. 1921	2,526.28	.....
Oil Springs.....	Feb. 1918	874.74	.....
Omeme.....	Jan. 1940	1,945.55	.....
Orangeville.....	July 1916	15,382.69	.....
Orono.....	Nov. 1938	1,786.44	.....
Oshawa.....	Feb. 1929	88,351.94	.....
Ottawa.....	Jan. 1914	36,802.58	.....
Otterville.....	Feb. 1916	1,170.91	.....
Owen Sound.....	Dec. 1915	44,124.89	.....
Paisley.....	Sept. 1923	2,684.29	.....
Palmerston.....	July 1916	4,501.62	.....
Paris.....	Feb. 1914	4,473.26	.....
Parkhill.....	May 1920	3,040.76	.....
Parry Sound.....	Jan. 1948	.....	.....
Penetanguishene.....	July 1911	10,052.96	.....
Perth.....	Feb. 1919	9,078.77	.....
Peterborough.....	Mar. 1913	52,163.35	.....
Petrolia.....	May 1916	5,817.64	.....
Pictou.....	April 1919	15,553.70	.....
Plattsville.....	Dec. 1914	1,779.83	.....
Point Edward.....	Nov. 1916	6,958.08	.....
Port Colborne.....	Mar. 1920	6,457.87	.....
Port Credit.....	Aug. 1912	4,971.96	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1947, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1948

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1948		Accumulated amount standing as a credit or charge on October 31, 1948	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	10,088.20	7,922.68	.....	7,922.68	.....
.....	4,252.86	4,447.53	.....	4,447.53	.....
.....	427.78	373.04	.....	373.04	.....
.....	3,636.37	4,119.39	.....	4,119.39	.....
.....	843.52	679.56	.....	679.56	.....
.....	8,855.99	8,731.13	.....	8,731.13	.....
.....	6,278.19	5,652.70	.....	5,652.70	.....
.....	673.11	833.88	.....	833.88	.....
.....	517.05	510.17	.....	510.17	.....
.....	2,250.70	2,048.35	.....	2,048.35	.....
.....	2,315.59	1,770.72	.....	1,770.72	.....
.....	11,907.53	11,005.93	.....	11,005.93	.....
.....	33,339.84	19,393.11	.....	19,393.11	.....
.....	12,031.57	11,349.51	.....	11,349.51	.....
.....	2,855.84	2,849.44	.....	2,849.44	.....
.....	43,090.47	43,068.74	.....	43,068.74	.....
.....	3,291.67	3,098.72	.....	3,098.72	.....
.....	2,526.28	2,408.68	.....	2,408.68	.....
.....	874.74	783.27	.....	783.27	.....
.....	1,945.55	1,611.27	.....	1,611.27	.....
.....	15,382.69	15,165.35	.....	15,165.35	.....
.....	1,786.44	1,607.91	.....	1,607.91	.....
.....	88,351.94	77,302.46	.....	77,302.46	.....
.....	36,802.58	11,086.95	.....	11,086.95	.....
.....	1,170.91	1,230.41	.....	1,230.41	.....
.....	44,124.89	42,067.40	.....	42,067.40	.....
.....	2,684.29	2,848.45	.....	2,848.45	.....
.....	4,501.62	3,820.35	.....	3,820.35	.....
.....	4,473.26	3,830.66	.....	3,830.66	.....
.....	3,040.76	3,837.38	.....	3,837.38	.....
.....	.....	1,835.13	.....	1,835.13	.....
.....	10,052.96	10,123.64	.....	10,123.64	.....
.....	9,078.77	8,616.10	.....	8,616.10	.....
.....	52,163.35	44,999.65	.....	44,999.65	.....
.....	5,817.64	5,449.43	.....	5,449.43	.....
.....	15,553.70	15,758.49	.....	15,758.49	.....
.....	1,779.83	1,890.88	.....	1,890.88	.....
.....	6,958.08	6,393.27	.....	6,393.27	.....
.....	6,457.87	5,248.25	.....	5,248.25	.....
.....	4,971.96	4,650.78	.....	4,650.78	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1948, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1947	
		Credit	Charge
		\$ c.	\$ c.
Port Dalhousie.....	Nov. 1912	4,321.12	.....
Port Dover.....	Dec. 1921	3,954.53	.....
Port Elgin.....	Mar. 1931	4,349.94	.....
Port Hope.....	Nov. 1929	11,875.71	.....
Port McNicoll.....	Jan. 1915	1,412.86	.....
Port Perry.....	Sept. 1922	6,084.99	.....
Port Rowan.....	Nov. 1926	470.92	.....
Port Stanley.....	April 1912	4,455.58	.....
Prescott.....	Dec. 1913	5,362.55	.....
Preston.....	Jan. 1911	11,012.83	.....
Priceville.....	Mar. 1920	166.77	.....
Princeton.....	Jan. 1915	1,450.38	.....
Queenston.....	Mar. 1921	597.44	.....
Renfrew.....	Dec. 1944	4,275.86	.....
Richmond.....	Aug. 1928	783.89	.....
Richmond Hill.....	June 1925	1,372.65	.....
Ridgetown.....	Dec. 1915	4,297.71	.....
Ripley.....	Jan. 1921	838.77	.....
Riverside.....	Nov. 1922	9,456.16	.....
Rockwood.....	Sept. 1913	1,145.63	.....
Rodney.....	Feb. 1917	1,843.67	.....
Rosseau.....	July 1931	.....	.....
Russell.....	Feb. 1926	1,470.86	.....
St. Catharines.....	April 1914	21,092.60	.....
St. Clair Beach.....	Nov. 1922	982.66	.....
St. George.....	Sept. 1915	1,805.97	.....
St. Jacobs.....	Sept. 1917	2,139.60	.....
St. Marys.....	May 1911	11,789.79	.....
St. Thomas.....	April 1911	12,777.23	.....
Sarnia.....	Dec. 1916	19,911.83	.....
Scarborough Township.....	Aug. 1918	25,699.12	.....
Seaforth.....	Nov. 1911	6,360.42	.....
Shelburne.....	July 1916	5,656.66	.....
Simcoe.....	Aug. 1915	10,323.52	.....
Smiths Falls.....	Sept. 1918	15,124.41	.....
Smithville.....	Nov. 1940	2,745.87	.....
Southampton.....	Feb. 1931	3,761.61	.....
Springfield.....	Aug. 1917	1,058.00	.....
Stamford Township.....	Nov. 1916	3,658.20	.....
Stayner.....	Oct. 1913	3,567.09	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1947, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1948

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1948		Accumulated amount standing as a credit or charge on October 31, 1948	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	4,321.12	4,803.40	.....	4,803.40	.....
.....	3,954.53	3,769.76	.....	3,769.76	.....
.....	4,349.94	3,673.48	.....	3,673.48	.....
.....	11,875.71	10,979.00	.....	10,979.00	.....
.....	1,412.86	1,477.79	.....	1,477.79	.....
.....	6,084.99	5,734.24	.....	5,734.24	.....
.....	470.92	218.16	.....	218.16	.....
.....	4,455.58	3,811.55	.....	3,811.55	.....
.....	5,362.55	4,745.35	.....	4,745.35	.....
.....	11,012.83	9,228.19	.....	9,228.19	.....
.....	166.77	153.52	.....	153.52	.....
.....	1,450.38	1,376.97	.....	1,376.97	.....
.....	597.44	609.02	.....	609.02	.....
.....	4,275.86	4,800.33	.....	4,800.33	.....
.....	783.89	803.69	.....	803.69	.....
.....	1,372.65	1,053.68	.....	1,053.68	.....
.....	4,297.71	3,577.59	.....	3,577.59	.....
.....	838.77	479.85	.....	479.85	.....
.....	9,456.16	7,562.37	.....	7,562.37	.....
.....	1,145.63	1,264.02	.....	1,264.02	.....
.....	1,843.67	1,910.90	.....	1,910.90	.....
.....	1,470.86	1,509.65	.....	1,509.65	.....
.....	21,092.60	10,442.15	.....	10,442.15	.....
.....	982.66	853.12	.....	853.12	.....
.....	1,805.97	2,070.94	.....	2,070.94	.....
.....	2,139.60	2,118.40	.....	2,118.40	.....
.....	11,789.79	11,119.24	.....	11,119.24	.....
.....	12,777.23	9,308.16	.....	9,308.16	.....
.....	19,911.83	23,080.08	.....	23,080.08	.....
.....	25,699.12	23,542.54	.....	23,542.54	.....
.....	6,360.42	6,657.26	.....	6,657.25	.....
.....	4,656.66	4,296.30	.....	4,296.30	.....
.....	10,323.52	9,275.87	.....	9,275.87	.....
.....	15,124.41	13,830.32	.....	13,830.32	.....
.....	2,745.87	3,075.11	.....	3,075.11	.....
.....	3,761.61	3,181.11	.....	3,181.11	.....
.....	1,058.00	1,054.49	.....	1,054.49	.....
.....	3,658.20	3,891.04	.....	3,891.04	.....
.....	3,567.09	3,808.07	.....	3,808.07	.....

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1948, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1947	
		Credit	Charge
		\$ c.	\$ c.
Stirling.....	Jan. 1930	1,668.53	
Stoney Creek.....	Nov. 1946	258.23	
Stouffville.....	Sept. 1923	4,197.90	
Stratford.....	Jan. 1911	25,457.40	
Strathroy.....	Dec. 1914	7,087.14	
Streetsville.....	Dec. 1934	3,061.80	
Sunderland.....	Nov. 1914	1,637.46	
Sutton.....	Aug. 1923	4,479.72	
Swansea.....	Oct. 1937	4,458.27	
Tara.....	Feb. 1918	1,739.82	
Tavistock.....	Nov. 1916	4,804.75	
Tecumseh.....	Nov. 1922	3,290.90	
Teeswater.....	Dec. 1920	2,922.78	
Thamesford.....	Feb. 1914	2,812.31	
Thamesville.....	Oct. 1915	1,742.21	
Thedford.....	May 1922	317.85	
Thornbury.....	Sept. 1944	3,620.67	
Thorndale.....	Mar. 1914	1,331.25	
Thornton.....	Nov. 1918	439.56	
Thorold.....	Jan. 1921	12,084.85	
Tilbury.....	April 1915	6,526.53	
Tillsonburg.....	Aug. 1911	9,150.88	
Toronto.....	June 1911	595,923.77	
Toronto Township.....	Aug. 1913	24,412.37	
Tottenham.....	Oct. 1918	506.31	
Trafalgar.....	Nov. 1936	3,563.95	
Trenton.....	Sept. 1931	16,360.93	
Tweed.....	Dec. 1930	3,844.26	
Uxbridge.....	Sept. 1922	6,293.47	
Victoria Harbour.....	July 1914	849.09	
Walkerton.....	Feb. 1931	9,778.79	
Wallaceburg.....	Feb. 1915	41,491.70	
Wardsville.....	June 1921	604.97	
Warkworth.....	Oct. 1923	477.61	
Waterdown.....	Nov. 1911	1,163.56	

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1947, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1948

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1948		Accumulated amount standing as a credit or charge on October 31, 1948	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	1,668.53	1,472.18		1,472.18	
	258.23		9.07		9.07
	4,197.90	4,091.26		4,091.26	
	25,457.40	21,686.43		21,686.43	
	7,087.14	6,642.01		6,642.01	
	3,061.80	4,185.38		4,185.38	
	1,637.46	3,005.51		3,005.51	
	4,479.72	4,686.14		4,686.14	
	4,458.27	5,988.76		5,988.76	
	1,739.82	1,478.31		1,478.31	
	4,804.75	3,314.27		3,314.27	
	3,290.90	3,153.91		3,153.91	
	2,922.78	2,862.61		2,862.61	
	2,812.31	2,815.00		2,815.00	
	1,742.21	1,565.48		1,565.48	
	317.85	280.96		280.96	
	3,620.67	3,187.01		3,187.01	
	1,331.25	1,761.38		1,761.38	
	439.56	393.25		393.25	
	12,084.85	11,221.73		11,221.73	
	6,526.53	4,765.25		4,765.25	
	9,150.88	8,194.60		8,194.60	
	595,923.77	415,150.40		415,150.40	
	24,412.37	23,807.71		23,807.71	
	506.31	306.38		306.38	
	3,563.95	2,636.88		2,636.88	
	16,360.93	14,905.91		14,905.91	
	3,844.26	4,919.19		4,919.19	
	6,293.47	6,073.17		6,073.17	
	849.09	879.13		879.13	
	9,778.79	9,828.79		9,828.79	
	41,491.70	41,448.19		42,448.19	
	604.97	511.61		511.61	
	477.61	367.64		367.64	
	1,163.56	1,103.47		1,103.47	

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay and

Statement showing the net Credit or Charge to each Municipality in respect of and adjustments made during the year. Also the net amount Credited ended October 31, 1948, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1947	
		Credit	Charge
		\$ c.	\$ c.
Waterford.....	April 1915	2,566.46	.....
Waterloo.....	Dec. 1910	18,498.84	.....
Watford.....	Sept. 1917	3,094.52	.....
Waubashene.....	Dec. 1914	1,507.27	.....
Welland.....	Sept. 1917	9,595.68	.....
Wellesley.....	Nov. 1916	1,162.39	.....
Wellington.....	April 1919	2,880.67	.....
West Lorne.....	Jan. 1917	4,467.00	.....
Weston.....	Aug. 1911	13,130.14	.....
Westport.....	Nov. 1931	830.94	.....
Wheatley.....	Feb. 1924	2,355.69	.....
Whitby.....	Jan. 1926	8,023.80	.....
Warton.....	May 1931	5,331.42	.....
Williamsburg.....	April 1915	800.93	.....
Winchester.....	Jan. 1914	3,360.88	.....
Windermere.....	June 1930	344.20	.....
Windsor.....	Oct. 1914	124,463.35	.....
Wingham.....	Dec. 1920	13,237.96	.....
Woodbridge.....	Dec. 1914	4,900.12	.....
Woodstock.....	Jan. 1911	34,548.25	.....
Woodville.....	Nov. 1914	1,388.45	.....
Wyoming.....	Nov. 1916	1,459.43	.....
York Township.....	Jan. 1941	80,386.98	.....
Zurich.....	Sept. 1917	1,237.97	.....
Ontario Central Reformatory.....	Sept. 1913	1,659.60	.....
Toronto Transportation Commission.....	Jan. 1927	4,431.55	.....
		3,115,403.12	.....

SYSTEM

S.O.—CREDIT OR CHARGE

Eastern Ontario Divisions

power supplied to it to October 31, 1947, the cash receipts and payments thereon or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1948

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged upon annual adjustment in respect of power supplied in the year ended October 31, 1948		Accumulated amount standing as a credit or charge on October 31, 1948	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	2,566.46	2,349.10	.....	2,349.10	.....
.....	18,498.84	14,861.69	.....	14,861.69	.....
.....	3,094.52	3,247.18	.....	3,247.18	.....
.....	1,507.27	1,407.73	.....	1,407.73	.....
.....	9,595.68	4,880.74	.....	4,880.74	.....
.....	1,162.39	1,076.04	.....	1,076.04	.....
.....	2,880.67	3,003.99	.....	3,003.99	.....
.....	4,467.00	5,419.00	.....	5,419.00	.....
.....	13,130.14	11,096.61	.....	11,096.61	.....
.....	830.94	1,338.13	.....	1,338.13	.....
.....	2,355.69	2,377.59	.....	2,377.59	.....
.....	8,023.80	6,870.39	.....	6,870.39	.....
.....	5,331.42	5,206.86	.....	5,206.86	.....
.....	800.93	726.89	.....	726.89	.....
.....	3,360.88	3,018.10	.....	3,108.10	.....
.....	344.20	193.28	.....	193.28	.....
.....	124,463.35	92,610.13	.....	92,610.13	.....
.....	13,237.96	13,756.68	.....	13,756.68	.....
.....	4,900.12	4,842.77	.....	4,842.77	.....
.....	34,548.25	31,631.26	.....	31,631.26	.....
.....	1,388.45	1,391.99	.....	1,391.99	.....
.....	1,459.43	1,315.23	.....	1,315.23	.....
.....	80,386.98	75,575.23	.....	75,575.23	.....
.....	1,237.97	1,352.92	.....	1,352.92	.....
.....	1,659.60	1,520.19	.....	1,520.19	.....
.....	4,431.55	.....	.....	.....	.....
.....	3,115,403.12	2,596,807.11	9.07	2,596,807.11	9.07

SOUTHERN ONTARIO SYSTEM

S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1948

Municipality	Period of years ended Oct. 31, 1948	Amount	Municipality	Period of years ended Oct. 31, 1948	Amount
		\$ c.			\$ c.
Acton.....	31 years	136,640. 72	Brigden.....	26 years	20,168. 69
Agincourt.....	25 "	21,297. 27	Brighton.....	19 "	25,536. 05
Ailsa Craig.....	28 "	25,847. 77	Brockville.....	28 "	344,915. 39
Alexandria.....	24 "	51,194. 45	Brussels.....	25 "	23,976. 06
Alliston.....	25 "	45,332. 49	Burford.....	28 "	25,550. 36
Almonte.....	4 "	4,646. 90	Burgessville.....	27 "	9,450. 94
Alvinston.....	25 "	25,917. 21	Burlington.....	4 "	16,397. 25
Amherstburg.....	25 "	103,845. 29	Caledonia.....	31 "	41,440. 81
Ancaster Township..	25 "	34,134. 79	Campbellville.....	24 "	5,304. 90
Apple Hil.....	24 "	5,853. 84	Cannington.....	29 "	27,198. 94
Arkona.....	22 "	11,571. 87	Cardinal.....	19 "	14,533. 59
Arnprior.....	10 "	30,163. 91	Carleton Place.....	24 "	145,879. 79
Arthur.....	27 "	33,650. 58	Cayuga.....	24 "	18,779. 02
Athens.....	20 "	12,525. 13	Chatham.....	28 "	724,003. 50
Aurora.....	6 "	22,602. 34	Chatsworth.....	28 "	8,742. 53
Aylmer.....	25 "	84,246. 09	Chesley.....	27 "	65,051. 70
Ayr.....	29 "	27,588. 24	Chesterville.....	29 "	44,901. 17
Baden.....	31 "	57,046. 80	Chippawa.....	27 "	30,640. 44
Barrie.....	30 "	301,984. 07	Clifford.....	25 "	13,929. 81
Bath.....	17 "	4,544. 75	Clinton.....	29 "	84,433. 15
Beachville.....	31 "	74,880. 87	Cobden.....	13 "	5,737. 86
Beamsville.....	12 "	16,238. 60	Cobourg.....	17 "	109,345. 07
Beaverton.....	29 "	35,696. 52	Colborne.....	16 "	11,054. 21
Beeton.....	25 "	26,467. 66	Coldwater.....	30 "	25,049. 91
Belle River.....	26 "	20,518. 47	Collingwood.....	30 "	247,950. 68
Belleville.....	20 "	367,644. 50	Comber.....	28 "	30,762. 59
Blenheim.....	28 "	68,795. 86	Cookstown.....	25 "	10,101. 33
Bloomfield.....	20 "	12,286. 36	Cottam.....	22 "	8,816. 96
Blyth.....	25 "	18,290. 83	Courtright.....	25 "	10,053. 70
Bobcaygeon.....	3 "	1,508. 57	Creemore.....	29 "	20,922. 91
Bolton.....	28 "	31,014. 86	Dashwood.....	26 "	15,298. 14
Bothwell.....	28 "	28,688. 89	Delaware.....	28 "	6,500. 56
Bowmanville.....	17 "	141,446. 78	Delhi.....	11 "	20,353. 70
Bradford.....	25 "	33,345. 90	Deseronto.....	18 "	15,803. 54
Braeside.....	4 "	1,982. 27	Dorchester.....	29 "	13,685. 95
Brampton.....	32 "	307,995. 31	Drayton.....	25 "	22,959. 36
Brantford.....	29 "	1,724,930. 06	Dresden.....	28 "	58,302. 49
Brantford Township..	25 "	78,300. 35	Drumbo.....	29 "	12,129. 54
Brechin.....	29 "	12,376. 09	Dublin.....	26 "	9,657. 37
Bridgeport.....	21 "	13,503. 85	Dundalk.....	28 "	23,456. 20

SOUTHERN ONTARIO SYSTEM S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1948

Municipality	Period of years ended Oct. 31, 1948	Amount	Municipality	Period of years ended Oct. 31, 1948	Amount
		\$ c.			\$ c.
Dundas	32 years	257,801.67	Holstein	27 years	4,655.93
Dunnville	26 "	118,690.25	Humberstone	25 "	42,288.96
Durham	28 "	54,036.54	Huntsville	27 "	111,477.07
Dutton	28 "	34,558.65	Ingersoll	32 "	332,086.68
East York Twp.	24 "	584,367.74	Iroquois	9 "	5,881.53
Elmira	30 "	138,464.91	Jarvis	25 "	27,129.53
Elmvale	30 "	25,499.57	Kemptville	24 "	38,102.95
Elmwood	25 "	7,979.83	Kincardine	24 "	80,468.90
Elora	29 "	64,683.01	Kingston	11 "	365,160.03
Embro	29 "	19,877.72	Kingsville	25 "	75,605.75
Erieau	25 "	13,905.11	Kirkfield	24 "	5,556.00
Erie Beach	24 "	3,067.22	Kitchener	32 "	2,406,981.23
Essex	25 "	59,937.26	Lakefield	20 "	26,404.16
Etobicoke Twp.	26 "	502,268.75	Lambeth	28 "	17,498.79
Exeter	27 "	78,825.88	Lanark	24 "	11,852.80
Fergus	29 "	122,111.62	Lancaster	24 "	10,309.02
Finch	21 "	8,826.76	La Salle	23 "	27,529.48
Flesherton	28 "	11,271.22	Leamington	25 "	174,505.10
Fonthill	23 "	13,541.12	Lindsay	20 "	208,305.39
Forest	26 "	64,052.42	Listowel	27 "	146,930.30
Forest Hill	25 "	385,878.69	London	32 "	4,307,003.79
Galt	32 "	1,009,655.08	London Township	24 "	41,915.43
Georgetown	30 "	195,654.49	Long Branch	18 "	67,940.17
Glencoe	25 "	36,374.77	Lucan	28 "	31,186.35
Goderich	29 "	221,028.71	Lucknow	24 "	38,682.70
Grand Valley	27 "	21,606.82	Lynden	28 "	21,526.92
Granton	27 "	13,566.38	Madoc	19 "	16,559.47
Gravenhurst	28 "	64,618.86	Markdale	27 "	18,887.12
Grimsby	7 "	17,021.78	Markham	25 "	36,467.77
Guelph	32 "	1,185,576.84	Marmora	20 "	11,319.82
Hagersville	30 "	132,219.83	Martintown	24 "	3,913.35
Hamilton	32 "	9,729,100.09	Maxville	24 "	16,748.06
Hanover	27 "	144,826.38	Meaford	24 "	60,614.51
Harriston	27 "	61,608.87	Merlin	25 "	19,305.82
Harrow	25 "	51,427.51	Merritton	27 "	394,700.76
Hastings	18 "	8,439.92	Midland	30 "	390,038.52
Havelock	20 "	21,557.28	Mildmay	16 "	8,447.00
Hensall	27 "	30,270.83	Millbrook	10 "	3,599.09
Hespeler	32 "	223,132.23	Milton	30 "	174,661.63
Highgate	27 "	16,447.95	Milverton	27 "	70,726.94

SOUTHERN ONTARIO SYSTEM *S.O.—SINKING FUND*

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1948

Municipality	Period of years ended Oct. 31, 1948	Amount	Municipality	Period of years ended Oct. 31, 1948	Amount
		\$ c.			\$ c.
Mimico.....	31 years	255,688.05	Port Dalhousie.....	27 years	70,632.72
Mitchell.....	32 "	80,532.80	Port Dover.....	25 "	49,991.38
Moorefield.....	25 "	11,064.30	Port Elgin.....	18 "	30,254.80
Morrisburg.....	11 "	8,913.62	Port Hope.....	19 "	131,027.61
Mount Brydges.....	28 "	13,488.41	Port McNicoll.....	29 "	11,161.13
Mount Forest.....	28 "	61,513.25	Port Perry.....	24 "	33,398.57
Napanee.....	19 "	85,071.79	Port Rowan.....	22 "	12,874.86
Neustadt.....	25 "	10,271.09	Port Stanley.....	31 "	73,890.78
Newbury.....	25 "	7,504.38	Prescott.....	29 "	94,294.04
Newcastle.....	12 "	7,063.96	Preston.....	32 "	445,920.49
New Hamburg.....	32 "	84,912.09	Priceville.....	24 "	1,701.41
Newmarket.....	4 "	19,311.70	Princeton.....	29 "	17,507.80
New Toronto.....	29 "	872,094.06	Queenston.....	25 "	12,182.51
Niagara Falls.....	28 "	966,234.47	Renfrew.....	4 "	6,706.45
Niagara-on-the-Lake.....	25 "	59,752.15	Richmond.....	21 "	6,513.90
North York Township	25 "	435,451.71	Richmond Hill.....	24 "	39,905.00
Norwich.....	31 "	62,303.29	Ridgetown.....	28 "	74,461.35
Norwood.....	20 "	11,933.26	Ripley.....	24 "	14,886.24
Oil Springs.....	25 "	39,938.29	Riverside.....	26 "	147,115.71
Omeme.....	9 "	5,410.21	Rockwood.....	30 "	19,326.85
Orangeville.....	27 "	83,265.45	Rodney.....	26 "	23,826.97
Orono.....	10 "	3,432.70	Rosseau.....	18 "	7,130.13
Oshawa.....	20 "	1,088,383.44	Russell.....	23 "	10,229.54
Ottawa.....	33 "	576,954.03	St. Catharines.....	27 "	1,323,424.43
Otterville.....	27 "	15,659.50	St. Clair Beach.....	26 "	12,338.52
Owen Sound.....	28 "	426,883.51	St. George.....	28 "	24,293.20
Paisley.....	24 "	19,720.11	St. Jacobs.....	26 "	30,171.63
Palmerston.....	27 "	76,538.42	St. Marys.....	32 "	224,469.23
Paris.....	29 "	197,747.75	St. Thomas.....	32 "	859,456.72
Parkhill.....	25 "	34,386.85	Sarnia.....	27 "	1,096,993.31
Parry Sound.....	1 "	738.43	Scarborough Twp....	25 "	377,365.46
Penetanguishene.....	32 "	112,305.70	Seaforth.....	32 "	106,533.66
Perth.....	24 "	130,899.97	Shelburne.....	27 "	33,846.29
Peterborough.....	20 "	686,961.27	Simcoe.....	28 "	208,667.56
Petrolia.....	27 "	172,427.62	Smiths Falls.....	25 "	194,422.77
Picton.....	20 "	105,183.37	Smithville.....	8 "	5,705.64
Plattsville.....	29 "	17,239.60	Southampton.....	18 "	28,894.19
Point Edward.....	26 "	123,397.24	Springfield.....	26 "	15,091.24
Port Colborne.....	27 "	179,299.12	Stamford Twp.....	27 "	182,790.66
Port Credit.....	31 "	77,432.92	Stayner.....	30 "	30,303.38

SOUTHERN ONTARIO SYSTEM S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1948

Municipality	Period of years ended Oct. 31, 1948	Amount	Municipality	Period of years ended Oct. 31, 1948	Amount
		\$ c.			\$ c.
Stirling.....	19 years	17,851.27	Waterford.....	28 years	55,591.81
Stoney Creek.....	2 "	1,824.39	Waterloo.....	32 "	486,128.81
Stouffville.....	25 "	32,628.45	Watford.....	26 "	43,910.60
Stratford.....	32 "	997,898.37	Waubashene.....	29 "	8,816.59
Strathroy.....	29 "	157,974.90	Welland.....	26 "	603,756.26
Streetsville.....	14 "	9,966.73	Wellesley.....	27 "	26,225.36
Sunderland.....	29 "	17,315.97	Wellington.....	20 "	19,958.96
Sutton.....	25 "	32,639.24	West Lorne.....	27 "	42,791.91
Swansea.....	23 "	174,698.00	Weston.....	32 "	427,305.37
Tara.....	25 "	15,294.35	Westport.....	17 "	10,758.51
Tavistock.....	27 "	79,176.85	Wheatley.....	25 "	26,290.31
Tecumseh.....	26 "	47,968.13	Whitby.....	20 "	100,458.91
Teeswater.....	24 "	22,181.73	Warton.....	18 "	30,530.08
Thamesford.....	29 "	30,033.35	Williamsburg.....	28 "	10,818.52
Thamesville.....	28 "	30,089.18	Winchester.....	29 "	35,426.90
Thedford.....	25 "	17,575.55	Windermere.....	19 "	5,081.82
Thornbury.....	4 "	1,491.92	Windsor.....	29 "	5,358,701.93
Thornedale.....	29 "	14,696.33	Wingham.....	24 "	72,526.38
Thornton.....	25 "	5,842.49	Woodbridge.....	29 "	59,658.73
Thorold.....	26 "	192,551.58	Woodstock.....	32 "	730,658.52
Tilbury.....	28 "	93,321.19	Woodville.....	29 "	16,578.56
Tillsonburg.....	32 "	157,805.30	Wyoming.....	27 "	14,491.58
Toronto.....	32 "	33,175,016.07	York Township.....	28 "	1,395,709.35
Toronto Township...	30 "	235,619.01	Zurich.....	26 "	22,817.83
Tottenham.....	25 "	19,104.45	Ontario Central Reformatory.....	14 "	13,815.25
Trafalgar.....	12 "	23,862.00	Toronto Transporta- tion Commission...	27 "	256,868.89
Trenton.....	17 "	193,339.28	Sandwich, Windsor & Amherstburg Rly..	26 "	250,007.59
Tweed.....	18 "	21,409.37			
Uxbridge.....	24 "	36,654.70			
Victoria Harbour...	29 "	11,246.57			
Walkerton.....	18 "	47,469.98			
Wallaceburg.....	28 "	363,052.87	Total Municipalities.....		\$91,803,482.42
Wardsville.....	25 "	6,575.34	Total—Rural Power Dis- trict.....		9,703,836.29
Warkworth.....	20 "	7,471.37	Total—Rural Lines.....		879.50
Waterdown.....	32 "	37,054.15			
			Grand Total.....		\$101,508,198.21

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

RURAL POWER DISTRICT

Operating Account for the year ended October 31, 1948

Revenue from customers in rural power district.	\$9,405,627.94
Cost of power as provided to be paid under Power Commission Act. . . \$4,611,533.78	
Cost of operation, maintenance and administration.	2,632,954.35
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments).	1,207,222.09
Provision for renewals.	570,629.75
Provision for sinking fund.	304,037.44
	<hr/> 9,326,377.41
Excess of revenue over operating cost for the year.	<hr/> \$79,250.53

Rates Suspense Account—at October 31, 1948

Balance at credit November 1, 1947.	\$3,608,820.17
Interest on account balances.	144,274.73
Operating balance for the year.	79,250.53
Adjustments made during the year.	\$7,161.55
Balance at credit October 31, 1948.	3,825,183.88
	<hr/>
	\$3,832,345.43
	<hr/> \$3,832,345.43

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM—Rural Line

Georgian Bay Division

Statement showing Interest, Renewals, Contingencies and Obsolescence and Sinking Fund charged by the Commission to the Municipality that operates the rural line for the year ended October 31, 1948

Operated by	Capital cost	Interest	Provision for renewals	Provision for contingencies and obsolescence	Provision for sinking fund	Total interest, renewals, contingencies and obsolescence, and sinking fund charged
Brechin.....	\$ c. 922.02	\$ c. 48.22	\$ c. 18.44	\$ c. 9.22	\$ c. 16.60	\$ c. 92.48

Statement showing the total Sinking Fund in respect of the line, together with interest allowed thereon to October 31, 1948

Operated by	Period of years ended October 31, 1948	Amount
Brechin.....	30 years	\$ c. 879.50

THUNDER BAY

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year	Share of capital cost of system	Average horse-power supplied in year after correction for power factor	Share of operating		
	To October 31, 1948			Cost of power purchased	Operating maintenance and administrative expenses	Interest
	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Fort William.....	20.00	4,334,671.35	19,327.1	7,955.66	79,861.87	115,615.49
Nipigon Township....	28.00	118,632.12	493.3	203.06	1,831.67	3,241.02
Port Arthur.....	20.00	5,866,189.84	26,196.5	10,783.34	107,166.38	156,321.12
Red Rock Improvement District.....	25.00	31,777.40	158.8	65.37	1,062.82	794.27
Terrace Bay Improvement District.....	39.00	17,759.21	260.0	9,101.22	461.56	185.57
Totals—Municipalities.....		10,369,029.92	46,435.7	28,108.65	190,384.30	276,157.47
Totals—Rural Operating Area.....		349,195.14	1,407.3	579.29	5,751.84	9,865.35
Totals—Companies.....		16,550,147.20	77,254.4	35,936.76	287,329.03	425,541.58
Totals—Rainy River district (N.O.P.).....		3,788,738.38	18,255.6	7,514.60	62,164.89	96,999.40
Totals—Mining Area (mines).....		2,687,095.13	9,549.1	3,930.72	90,048.72	44,867.87
Totals—Mining Area (townsites) ..		440,392.88	1,097.7	451.85	29,972.61	5,157.71
		34,184,598.65				
Non-operating capital.....		6,903,787.49				
Grand totals.....		41,088,386.14	153,999.8	76,521.87	665,651.39	858,589.38

THUNDER BAY

Statement showing the net Credit or Charge to each Municipality in respect of power ments made during the year; also the net amount Credited or Charged to each and the accumulated amount standing as a Credit

Municipality	Date commenced operating	Net credit or charge at October 31, 1947	
		Credit	Charge
		\$ c.	\$ c.
Fort William.....	Oct. 1926	27,649.94	.....
Nipigon Township.....	Jan. 1925	2,733.06	.....
Port Arthur.....	Dec. 1910	37,711.71	.....
Red Rock.....	Feb. 1948	.....	.....
Terrace Bay.....	Jan. 1948	.....	.....
Totals.....		68,094.71	.....

SYSTEM

T.B.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1948

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Balance credited to each municipality
Provision for renewals	Provision for contingencies and obsolescence	Provision for stabilization of rates	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
25,260.07	92,310.44		29,277.68	11,039.30	361,320.51	386,541.51	25,221.00
773.22	2,398.93		831.46	281.76	9,561.12	13,812.40	4,251.28
34,101.01	125,074.45		39,587.47	14,962.98	487,996.75	523,930.50	35,933.75
152.01	739.94		200.10	90.70	3,105.21	3,968.83	863.62
66.59	22.20		46.75		9,883.89	10,141.35	257.46
60,352.90	220,545.96		69,943.46	26,374.74	871,867.48	938,394.59	66,527.11
2,342.89	6,889.43		2,485.31	803.82	28,717.93	28,717.93	
87,177.81	349,652.77		107,203.64	(27,178.56)	1,265,663.03	1,265,663.03	
19,351.57	10,842.07		24,436.36		221,308.89	221,308.89	
8,215.11	16,884.12	87,864.52	11,303.23		263,114.29	263,114.29	
944.35	11,563.17	22,615.71	1,299.34		72,004.74	72,004.74	
178,384.63	616,377.52	110,480.23	216,671.34		2,722,676.36	2,789,203.47	66,527.11

SYSTEM

T.B.—CREDIT OR CHARGE

supplied to it to October 31, 1947, the cash receipts and payments thereon, and adjust- Municipality in respect of power supplied in the year ended October 31, 1948, or Charge to each Municipality at October 31, 1948

Cash receipts and payments on account of such credits and charges, also adjustments made during the year		Net amount credited or charged in respect of power supplied in the year ended October 31, 1948		Accumulated amount standing as a credit or charge on October 31, 1948	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	27,649.94	25,221.00		25,221.00	
	2,733.06	4,251.28		4,251.28	
	37,711.71	35,933.75		35,933.75	
		863.62		863.62	
		257.46		257.46	
	68,094.71	66,527.11		66,527.11	

THUNDER BAY SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the System, and interest allowed thereon, to October 31, 1948

Municipality	Period of years ended October 31, 1948	Amount
		\$ c.
Fort William.....	22 years	1,590,997.86
Nipigon Township.....	22 years	19,334.40
Port Arthur.....	22 years	3,911,426.49
Red Rock.....	1 year	678.87
Terrace Bay.....	1 year	830.63
Total—Municipalities.....		5,523,268.25
Total—Rural power district.....		88,931.44
Grand total.....		5,612,199.69

THUNDER BAY SYSTEM—RURAL POWER DISTRICT

Operating Account for year ended October 31, 1948

Revenue from customers in rural power district.....	\$77,734.43
Cost of power as provided to be paid under Power Commission Act....	\$28,717.93
Cost of operation, maintenance and administration.....	27,581.27
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments).....	13,657.05
Provision for renewals.....	6,534.70
Provision for sinking fund.....	3,440.52
	<u>79,931.47</u>
Excess of operating cost over revenue for the year.....	<u>\$2,197.04</u>

Rates Suspense Account as at October 31, 1948

Balance at debit, November 1, 1947.....	\$21,556.87
Interest on account balances.....	862.39
Operating balance for the year.....	2,197.04
Adjustments made during the year.....	29.81
	<u>24,646.11</u>
Balance at debit, October 31, 1948.....	<u>\$24,646.11</u>

NORTHERN ONTARIO PROPERTIES

(Operated by The Hydro-Electric Power Commission of Ontario)

FINANCIAL ACCOUNTS

For the year ended October 31, 1948

Relating to Power Properties which are held and operated by the Commission in trust for the Province of Ontario, and which are situated in the following Northern Districts:

Abitibi	Timiskaming	Sudbury	Nipissing
Patricia	Rainy River	Rural Power	

STATEMENTS

- Balance Sheet as at October 31, 1948
- Operating Account for the year ended October 31, 1948
- Schedules supporting the Balance Sheet as at October 31, 1948
 - Fixed Assets—By Districts
 - Fixed Assets—Changes during year
 - Renewals Reserve
 - Contingencies and Obsolescence Reserve
 - Sinking Fund Reserve

THE HYDRO-ELECTRIC POWER NORTHERN ONTARIO

Held and operated by The Hydro-Electric Power Commission

BALANCE SHEET AS AT

ASSETS

FIXED ASSETS:

Abitibi district.....	\$ 30,096,141.26
Timiskaming district.....	14,942,924.48
Sudbury district.....	11,601,670.30
Nipissing district.....	1,507,504.89
Patricia district.....	7,956,287.06
Rainy River district.....	1,578,227.24
Rural power district.....	2,622,233.78
Communications.....	61,236.04

\$ 70,366,225.05

Less grants-in-aid of construction—

Province of Ontario—for rural power district..... 1,161,533.52

\$ 69,204,691.53

CURRENT ASSETS:

Regional Office working funds.....	\$ 17,098.12
The Hydro-Electric Power Commission of Ontario—current account with Southern Ontario and Thunder Bay systems.....	490,087.52
Sundry accounts receivable.....	32,568.07
Power accounts receivable.....	837,955.61
Interest accrued.....	18,296.88
Consumers' deposits—securities— Bonds at par value.....	\$ 1,339,200.00
Stocks at market value.....	265,972.50

1,605,172.50

Prepayments..... 88,614.91

3,089,793.61

INVENTORIES:

Maintenance materials and supplies.....	\$ 593,460.49
Maintenance tools and equipment.....	358,657.07

952,117.56

DEFERRED CHARGES AND SUNDRY ASSETS:

Work in progress—deferred work orders.....	\$ 71,507.37
Unamortized discount on debentures.....	301,524.13

373,031.50

INVESTMENTS (Including sinking fund investments of \$2,563,140.02)—

Province of Ontario and Dominion of Canada bonds at amortized cost..... 2,577,665.02

\$ 76,197,299.22

COMMISSION OF ONTARIO

PROPERTIES

of Ontario in trust for the Province of Ontario

OCTOBER 31, 1948

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt.....	\$ 39,325,000.00	
Advances from the Province of Ontario.....	5,150,795.20	
Purchase agreements.....	5,367.00	
		\$ 44,481,162.20

CURRENT LIABILITIES:

Power accounts—credit balances.....	\$ 3,511.38	
Consumers' deposits.....	1,844,247.68	
Debenture interest accrued.....	262,083.77	
Miscellaneous accruals.....	27,417.76	
		2,137,260.59

RESERVES:

Renewals.....	\$ 6,729,420.84	
Contingencies and obsolescence.....	2,534,680.05	
Miscellaneous.....	172,177.55	
		9,436,278.44

SINKING FUND RESERVES:

Represented by:

Funded debt and provincial advances retired through sinking funds.....	\$ 17,541,316.27	
Sinking fund investments.....	2,563,140.02	
		20,104,456.29
		38,141.70

SURPLUS.....		\$ 76,197,299.22
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Auditors' Report

We have examined the balance sheet of the Northern Ontario Properties held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario as at October 31, 1948 and the attached statements of operations and surplus for the year ended on that date. In connection therewith we made a general review of the accounting methods and, without making a detailed audit of the transactions, examined or tested the accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate. We received all the information and explanations we required from its officers and employees.

We report that in our opinion the foregoing balance sheet and related statements of operations and surplus (as more fully reported upon by us to the Lieutenant-Governor in Council) have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Northern Ontario Properties operated by the Commission at October 31, 1948 and of the results of their operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON & CO.

Chartered Accountants.

Toronto, Canada,
July 21, 1949.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

STATEMENT OF OPERATIONS for the year ended October 31, 1948

REVENUE:

Power sold to private companies and other customers. \$7,059,878.52

COST OF OPERATION:

Power purchased	\$252,032.72	
Operating, maintenance and administrative expenses.	3,130,063.96	
Interest (including interest on sinking fund, renewals, and other reserves and after deducting interest earned on investments)	1,970,862.86	
Provision for renewals.	525,662.57	
Provision for sinking fund.	1,679,544.08	
		<u>7,558,166.19</u>

Net loss on operations for year \$498,287.67

Statement of Surplus for the year ended October 31, 1948

Balance at credit November 1, 1947.	\$17,348.68
Add:	
Amount transferred from reserve for contingencies and obsolescence.	300,000.00
Amount transferred from stabilization of rates reserve.	219,080.69
	<u>536,429.37</u>
Deduct:	
Net loss on operations for year ended October 31, 1948.	498,287.67
Balance at credit October 31, 1948.	<u>\$88,141.70</u>

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—October 31, 1948

Property	Under construction	In service		Total
		Non- depreciable	Depreciable	
ABITIBI DISTRICT:	\$ c.	\$ c.	\$ c.	\$ c.
Power Plants:				
Abitibi river:				
Abitibi Canyon.....	9,951.57	5,530,862.63	13,458,534.61	18,999,348.81
Frederick House dam.....	6,734.46	141,588.49	751,437.50	899,760.45
Dasserat Lake diversion.....		4,220.89	34,471.80	38,692.69
Watabeag Lake dam.....		6,983.63	64,565.68	71,549.31
	16,686.03	5,683,655.64	14,309,009.59	20,009,351.26
Transformer Stations.....	199,971.23	215,856.69	2,493,340.70	2,909,168.62
Transmission Lines.....	175,648.23	866,942.90	6,030,473.53	7,073,064.66
Local Systems.....	373.95		104,182.77	104,556.72
	392,679.44	6,766,455.23	22,937,006.59	30,096,141.26
TIMISKAMING DISTRICT:				
Power Plants:				
Matabitchuan river:				
Matabitchuan.....	4,247.16	3,240.00	705,440.53	712,927.69
Storage dams.....			134,000.00	134,000.00
Montreal river:				
Upper Notch.....	169,192.00	6,534.35	1,577,274.98	1,753,001.33
Fountain Falls.....	137.94		349,751.00	349,888.94
Ragged Chute.....			959,172.00	959,172.00
Hound Chute.....	791.36	3,240.00	452,002.19	456,033.55
Indian Chute.....	134.83		430,657.41	430,792.24
Storage Dams.....			166,334.60	166,334.60
Mattagami river:				
Sandy Falls.....	17,829.25		564,464.49	582,293.74
Wawaitin.....	98,249.03		783,241.65	881,490.68
Lower Sturgeon.....	4,029.50	53,250.00	776,572.56	833,852.06
Storage dams.....		1,944.00	208,743.20	210,687.20
Intangible.....		921,668.29		921,668.29
	294,611.07	989,876.64	7,107,654.61	8,392,142.32
Transformer Stations.....	158,979.36		1,318,154.53	1,477,133.89
Transmission Lines.....	116,194.02	294,651.49	2,946,514.36	3,357,359.87
Office and Service Buildings.....	12,334.98		178,516.34	190,851.32
Local Distribution Systems.....			1,525,437.08	1,525,437.08
	582,119.43	1,284,528.13	13,076,276.92	14,942,924.48

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—October 31, 1948

Property	Under Construction	In service		Total
		Non- depreciable	Depreciable	
SUDBURY DISTRICT:	\$ c.	\$ c.	\$ c.	\$ c.
Power Plants:				
Wanapitei River:				
Coniston	5,622.52	13,597.20	738,542.09	757,761.81
McVittie		13,323.00	393,696.61	407,019.61
Stinson	1,679.26	33,000.00	666,861.97	701,541.23
Storage dam		25.00	194,870.00	194,895.00
Intangible		830,514.53		830,514.53
Sturgeon River:				
Crystal Falls and Storage dams	167,154.91	44,531.27	938,469.02	1,150,155.20
Mississagi River:				
Tunnel	5,796,863.78			5,796,863.78
	5,971,320.47	934,991.00	2,932,439.69	9,838,751.16
Transformer Stations	956,700.31		150,318.32	1,107,018.63
Transmission Lines	110,606.80		545,293.71	655,900.51
	7,038,627.58	934,991.00	3,628,051.72	11,601,670.30
NIPISSING DISTRICT:				
Power Plants:				
South River:				
Nipissing		11,089.60	242,343.26	253,432.86
Bingham Chute	4,835.71	12,105.05	244,854.55	261,795.31
Elliot Chute		119,307.09	334,834.33	454,141.42
Storage dams			76,122.70	76,122.70
Miscellaneous			2,678.64	2,678.64
Intangible		69,478.34		69,478.34
	4,835.71	211,980.08	900,833.18	1,117,649.27
Transformer Stations	1,876.72		64,769.68	66,646.40
Transmission Lines	1,293.65		276,395.88	277,689.53
Local Systems		2,219.65	43,300.04	45,519.69
	8,006.08	214,199.73	1,285,299.08	1,507,504.89
PATRICIA DISTRICT:				
Power Plants:				
English River:				
Ear Falls	405,772.07	566.75	3,045,219.46	3,451,558.28
Albany River:				
Rat Rapids		39,297.44	571,098.96	610,396.40
	405,772.07	39,864.19	3,616,318.42	4,061,954.68
Transformer Stations	18,502.02		199,462.58	217,964.60
Transmission Lines	260,023.03		3,354,346.79	3,614,369.82
Local Systems	5,694.10		56,303.86	61,997.96
	689,991.22	39,864.19	7,226,431.65	7,956,287.06

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—October 31, 1948

Property	Under Construction	In service		Total
		Non- depreciable	Depreciable	
RAINY RIVER DISTRICT:	\$ c.	\$ c.	\$ c.	\$ c.
Transformer Stations	637.04		165,334.39	165,971.43
Transmission Lines	7,208.34	349,679.95	1,009,869.48	1,366,757.77
Local System			45,498.04	45,498.04
	7,845.38	349,679.95	1,220,701.91	1,578,227.24
NORTHERN ONTARIO PROPERTIES Communications	40,960.30		20,275.74	61,236.04
NORTHERN ONTARIO PROPERTIES RURAL POWER DISTRICT:				
Distribution System:				
H-E.P.C. investment	35,194.29		1,202,078.74	1,237,273.03
Government grants	35,194.30		1,126,339.22	1,161,533.52
Power Plant (Manitoulin)	14,357.35	43,396.98	165,672.90	223,427.23
	84,745.94	43,396.98	2,494,090.86	2,622,233.78

FIXED ASSETS—Summary, October 31, 1948

Property	Under Construction	In service		Total
		Non- depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
Abitibi district	392,679.44	6,766,455.23	22,937,006.59	30,096,141.26
Timiskaming district	582,119.43	1,284,528.13	13,076,276.92	14,942,924.48
Sudbury district	7,038,627.58	934,991.00	3,628,051.72	11,601,670.30
Nipissing district	8,006.08	214,199.73	1,285,299.08	1,507,504.89
Patricia district	689,991.22	39,864.19	7,226,431.65	7,956,287.06
Rainy River district	7,845.38	349,679.95	1,220,701.91	1,578,227.24
Rural Power district	84,745.94	43,396.98	2,494,090.86	2,622,233.78
Northern Communications	40,960.30		20,275.74	61,236.04
	8,844,975.37	9,633,115.21	51,888,134.47	70,366,225.05
Less grants-in-aid of construction—Province of Ontario for rural power district				1,161,533.52
				\$69,204,691.53

**NORTHERN ONTARIO
CHANGES IN FIXED ASSETS—**

Class of asset	Balance at beginning of year	Expenditure during year
POWER PLANTS:	\$ c.	\$ c.
Abitibi district.....	20,000,723.79	13,190.30
Timiskaming district.....	7,918,760.86	486,653.65
Sudbury district.....	4,168,752.99	5,669,998.17
Nipissing district.....	1,112,970.56	4,835.71
Patricia district.....	3,329,374.39	846,271.60
	36,530,582.59	7,020,949.43
TRANSFORMER STATIONS:		
Abitibi district.....	2,498,918.07	428,072.36
Timiskaming district.....	1,245,728.42	268,938.54
Sudbury district.....	422,761.95	685,999.61
Nipissing district.....	66,370.44	1,547.33
Patricia district.....	195,892.50	22,351.74
Rainy River district.....	164,393.23	1,543.20
	4,594,064.61	1,408,452.78
TRANSMISSION LINES:		
Abitibi district.....	6,853,135.20	220,716.80
Timiskaming district.....	3,283,025.00	589,740.01
Sudbury district.....	498,375.16	137,472.35
Nipissing district.....	276,443.06	1,901.40
Patricia district.....	2,863,558.25	750,811.57
Rainy River district.....	1,365,211.14	1,546.63
	15,139,747.81	1,702,188.76
LOCAL SYSTEMS:		
Abitibi district.....	98,900.05	7,501.67
Timiskaming district.....	1,453,417.48	78,146.21
Nipissing district.....	42,903.37	2,985.32
Patricia district.....	58,755.90	3,242.06
Rainy River district.....	34,311.99	11,186.05
	1,688,288.79	103,061.31
COMMUNICATIONS.....		29,788.95
OFFICE AND SERVICE BUILDINGS:		
Timiskaming district.....	178,610.46	12,240.86
RURAL POWER DISTRICT:		
H-E.P.C. Investment.....	842,265.28	394,879.03
Government grants.....	768,039.33	393,365.48
Power Development (Manitoulin).....	188,725.91	34,701.32
	1,799,030.52	822,945.83
	59,930,324.78	11,099,627.92
Less grants-in-aid of construction— Province of Ontario for rural power district..	768,039.33	393,494.19
	59,162,285.45	10,706,133.73

PROPERTIES
During Year Ended October 31, 1948

Adjustments	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves and operations	
\$ c.	\$ c.	\$ c.	\$ c.
.....	270.00	4,292.83	20,009,351.26
8,844.30	16,088.49	6,028.00	8,392,142.32
.....	.....	.....	9,838,751.16
.....	.....	157.00	1,117,649.27
.....	.....	113,691.31	4,061,954.68
8,844.30	16,358.49	124,169.14	43,419,848.69
.....
14,194.19	.....	32,016.00	2,909,168.62
33,360.64	2,165.33	2,007.10	1,477,133.89
.....	70.00	1,672.93	1,107,018.63
533.00	600.00	138.37	66,646.40
.....	279.64	.....	217,964.60
35.00	.....	.....	165,971.43
19,664.45	3,114.97	35,834.40	5,943,903.57
.....
3,878.88	364.67	4,301.55	7,073,064.66
47,828.82	20,086.52	447,489.80	3,357,359.87
21,868.00	1,815.00	.....	655,900.51
.....	654.93	.....	277,689.53
.....	.....	.....	3,614,369.82
.....	.....	.....	1,366,757.77
22,081.94	22,921.12	451,791.35	16,345,142.16
.....
.....	1,845.00	.....	104,556.72
.....	99.75	6,026.86	1,525,437.08
.....	369.00	.....	45,519.69
.....	.....	.....	61,997.96
.....	.....	.....	45,498.04
.....	2,313.75	6,026.86	1,783,009.49
31,447.09	.....	.....	61,236.04
.....
.....	.....	.....	190,851.32
.....
727.50	.....	598.78	1,237,273.03
727.50	.....	598.79	1,161,533.52
.....	.....	.....	223,427.23
1,455.00	.....	1,197.57	2,622,233.78
.....	44,708.33	619,019.32	70,366,225.05
.....	.....	.....	1,161,533.52
.....	44,708.33	619,019.32	69,204,691.53
.....
.....	Renewals.....	52,189.68	.....
.....	Contingencies.....	559,671.70	.....
.....	Operations.....	4,157.94	.....
.....	Fire Insurance Reserve.....	3,000.00	.....
.....	.....	619,019.32	.....

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

RENEWALS RESERVE—October 31, 1948

Balance at November 1, 1947.....		\$6,000,250.94
Interest at 4% on reserve balance.....	\$240,010.04	
Provision in the year.....	525,662.57	
Adjustments in respect of equipment transferred during the year.....	17,636.02	
		<u>783,308.63</u>
		\$6,783,559.57
Deduct:		
Amounts withdrawn for renewals.....	1,771.00	
Amounts withdrawn in respect of assets removed from service, etc.....	\$52,189.68	
Excess reserve accumulated against assets removed from service—transferred to contingency reserve.....	178.05	
		<u>54,138.73</u>
Balance at October 31, 1948.....		<u><u>\$6,729,420.84</u></u>

CONTINGENCIES AND OBSOLESCENCE RESERVE—October 31, 1948

Balance at November 1, 1947.....		\$3,615,885.84
Interest at 4% on reserve balance.....	\$144,635.43	
Excess renewals reserve accumulated against assets removed from service—transferred from renewals reserve.....	178.05	
		<u>144,813.48</u>
		\$3,760,699.32
Deduct:		
Contingencies met with during the year.....	\$366,347.57	
Excess of cost of fixed assets retired over accumulated renewals reserve.....	559,671.70	
Transferred to surplus account.....	300,000.00	
		<u>1,226,019.27</u>
Balance at October 31, 1948.....		<u><u>\$2,534,680.05</u></u>

SINKING FUND RESERVE—October 31, 1948

Balance at November 1, 1947.....		\$17,755,827.48
Interest at 4% on reserve balance.....	\$669,084.73	
Provision in the year.....	1,679,544.08	
		<u>2,348,628.81</u>
Balance at October 31, 1948.....		<u><u>\$20,104,456.29</u></u>

SECTION X

MUNICIPAL ACCOUNTS

and

**Statistical Data Relating to Hydro-Electric Distribution Systems
Operated by Individual Municipalities Served by
The Hydro-Electric Power Commission
of Ontario**

THE Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through The Hydro-Electric Power Commission.

Financial statements prepared from the books of these Hydro utilities are submitted herein to show how each has operated during the past year, and its financial status at the present time. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with The Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with an accounting system designed by the Commission. During the year 1948 this standard method of accounting was installed in Parry Sound, Red Rock, Stoney Creek and Terrace Bay.

Periodical inspections are made of the books of all Hydro electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the book-keeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement ensures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year, and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for the past eight years. Similar data for earlier years since 1913 were published in the Report for 1943. This consolidated statement combines the balance sheets of all local municipal Hydro utilities receiving power under cost contracts. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$126,096,691.57 in 1948, and the total assets from \$11,907,826.86 to \$259,296,736.98. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to a maximum of \$52,685,316.86 in 1932, and receding to \$12,792,272.60 in 1948. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; from 88.0 per cent in 1913 to 5.2 per cent in 1948. The equities in The Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for the past eight years and combines the results from all local municipal Hydro utilities receiving power under cost contracts. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of \$4,273,-872.13 for 1948. (See also diagrams in Foreword to Report.)

The four statements, "A" to "D", following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of consumers and consumption, cost of power to municipalities, power and lighting rates charged to consumers, etc. In statements "A" and "B", the municipalities are arranged alphabetically under each system; in statement "C" all municipalities are arranged alphabetically; in statement "D" the municipalities are arranged alphabetically in four groups—cities, suburban areas, towns and small municipalities.

Statement "A" presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory.

In conformity with a policy of service at cost to the customer, refunds by cash or credit are made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc., and to individual customers. The total thus returned to customers during the year 1948 amounted in round figures to \$360,000.

The reserves for depreciation, and the acquired equity in The Hydro-Electric Power Commission's systems, are listed individually and totalled;

and under the heading "surplus" are included not only the operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 35.0 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of \$149,069,639.13, being equal to 118.2 per cent of the total plant cost.

Statement "B" shows the detailed operating report for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility and the number of consumers of each class are also shown.

The item "cost of power supplied by H-E.P.C." in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.*

Of the 308 municipal electrical utilities included in this statement, 305 received from consumers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of \$4,277,305.01 for the year; the other three were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating \$1,414.12.

Statement "C" presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1948, for domestic service, for commercial light service and for power service.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.† For further reference to this informative statement, consult the special introduction to it on page 360.

*In 1939 and 1940 a number of municipalities asked permission to take power cost adjustments into the following year, to facilitate the earlier closing of their books. On this account, from 1941 on, with few exceptions the Balance Sheet shows the previous year's equity in Hydro Commission properties; and the Cost of Power in the Operating Statement includes the previous year's adjustments.

†The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

Year.....	1941	1942	1943
Number of municipalities included.....	296	297	298
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	11,488,173.96	11,546,286.55	11,664,887.81
Substation equipment.....	24,896,262.26	25,359,352.47	25,392,202.96
Distribution system—overhead.....	25,228,363.52	25,572,132.86	25,773,224.22
Distribution system—underground.....	6,391,399.25	6,446,133.75	6,451,393.47
Line transformers.....	11,817,440.89	12,209,624.79	12,353,367.17
Meters.....	10,644,655.81	10,938,305.73	11,117,612.15
Street lighting equipment—regular.....	2,940,055.38	2,928,896.30	2,903,704.11
Street lighting equipment—ornamental.....	1,540,369.82	1,543,717.00	1,542,294.82
Miscellaneous construction expenses.....	4,366,893.41	4,091,006.92	3,740,027.08
Steam or hydraulic plant.....	445,118.58	422,172.72	397,576.71
Old plant.....	1,329,860.41	1,028,830.05	936,561.90
Total plant.....	101,088,593.29	102,086,459.14	102,272,852.40
Bank and cash balance.....	2,991,173.27	2,482,945.50	2,341,996.68
Securities and investments.....	8,368,139.57	12,592,455.09	17,037,057.29
Accounts receivable.....	4,116,252.29	3,614,066.68	3,347,449.72
Inventories.....	1,984,025.53	2,047,430.38	1,750,799.42
Sinking fund on local debentures.....	5,530,647.79	5,445,199.46	5,028,551.56
Equity in H-E.P.C. systems.....	52,458,225.18	57,080,491.77	62,031,673.13
Other assets.....	226,034.26	197,190.92	537,366.80
Total assets.....	176,763,091.18	185,546,238.94	194,347,747.00
LIABILITIES			
Debenture balance.....	17,805,415.36	16,184,642.53	13,657,032.51
Accounts payable.....	3,088,145.27	2,399,404.91	2,699,630.77
Bank overdraft.....	302,744.63	105,571.05	118,834.40
Other liabilities.....	2,987,132.70	2,806,844.10	2,618,742.94
Total liabilities.....	24,183,437.96	21,496,462.59	19,094,240.62
RESERVES			
For equity in H-E.P.C. systems.....	52,458,225.18	57,080,491.77	62,031,673.13
For depreciation.....	27,795,985.72	29,840,207.73	32,138,469.64
Other reserves.....	3,592,384.90	4,907,609.88	5,449,398.96
Total reserves.....	83,846,595.80	91,828,309.38	99,619,541.73
SURPLUS			
Debentures paid.....	39,943,340.75	41,183,741.27	43,552,091.22
Local sinking fund.....	5,530,647.79	5,445,199.46	5,028,551.56
Operating surplus.....	23,259,068.88	25,592,526.24	27,053,321.87
Total surplus.....	68,733,057.42	72,221,466.97	75,633,964.65
Total liabilities, reserves and surplus.....	176,763,091.18	185,546,238.94	194,347,747.00
Percentage of net debt to total assets.....	14.6	11.9	10.0

BALANCE SHEETS

1944	1945	1946	1947	1948
298	304	304	304	308
<div>\$ c.</div> <div>11,713,108.74</div> <div>25,805,344.10</div> <div>26,075,416.77</div> <div>6,385,742.19</div> <div>12,698,080.21</div> <div>11,339,479.64</div> <div>2,926,365.70</div> <div>1,542,819.42</div> <div>3,414,557.25</div> <div>368,022.38</div> <div>820,607.24</div>	<div>\$ c.</div> <div>11,879,469.56</div> <div>26,201,620.92</div> <div>26,835,864.78</div> <div>6,539,797.63</div> <div>13,360,997.73</div> <div>11,742,720.68</div> <div>3,066,246.06</div> <div>1,551,628.63</div> <div>3,469,256.69</div> <div>1,005,980.83</div> <div>692,517.55</div>	<div>\$ c.</div> <div>11,830,325.45</div> <div>26,778,943.63</div> <div>27,810,938.64</div> <div>6,848,694.50</div> <div>14,247,872.95</div> <div>12,325,105.86</div> <div>3,268,433.46</div> <div>1,555,698.39</div> <div>3,802,802.98</div> <div>1,080,730.83</div> <div>658,421.95</div>	<div>\$ c.</div> <div>12,220,747.92</div> <div>28,430,102.81</div> <div>29,230,801.09</div> <div>7,400,874.88</div> <div>15,698,549.76</div> <div>13,112,187.77</div> <div>3,827,634.40</div> <div>1,536,957.94</div> <div>4,242,837.80</div> <div>1,080,976.81</div> <div>587,479.45</div>	<div>\$ c.</div> <div>12,981,533.46</div> <div>29,626,621.36</div> <div>31,541,077.08</div> <div>8,040,205.01</div> <div>17,593,431.84</div> <div>13,948,013.24</div> <div>4,486,158.98</div> <div>1,558,798.17</div> <div>4,290,247.58</div> <div>1,457,291.81</div> <div>573,313.04</div>
103,089,543.64	106,346,101.06	110,207,968.64	117,369,150.63	126,096,691.57
<div>1,947,073.36</div> <div>21,245,620.67</div> <div>3,710,514.76</div> <div>1,622,866.57</div> <div>4,880,499.77</div> <div>69,486,548.01</div> <div>192,661.46</div>	<div>1,744,827.39</div> <div>27,530,379.33</div> <div>3,682,108.35</div> <div>1,735,925.21</div> <div>4,952,718.62</div> <div>75,002,351.38</div> <div>290,022.85</div>	<div>3,584,075.84</div> <div>27,152,189.81</div> <div>4,133,184.23</div> <div>2,193,231.80</div> <div>4,609,214.16</div> <div>80,670,336.85</div> <div>326,083.52</div>	<div>2,759,333.88</div> <div>27,721,988.41</div> <div>4,381,276.48</div> <div>3,140,379.57</div> <div>4,387,586.13</div> <div>86,574,096.81</div> <div>543,728.14</div>	<div>3,480,104.26</div> <div>26,691,542.33</div> <div>3,987,098.82</div> <div>3,814,953.93</div> <div>1,795,295.61</div> <div>92,889,067.86</div> <div>541,982.60</div>
206,175,328.24	221,284,434.19	232,876,284.85	246,877,540.05	259,296,736.98
<div>11,612,359.10</div> <div>1,701,420.70</div> <div>174,491.81</div> <div>2,584,979.26</div>	<div>10,612,595.02</div> <div>2,528,081.42</div> <div>429,585.64</div> <div>2,707,515.21</div>	<div>9,049,583.60</div> <div>2,267,268.71</div> <div>355,417.71</div> <div>2,636,251.52</div>	<div>7,947,290.14</div> <div>3,028,306.12</div> <div>613,465.91</div> <div>2,642,971.05</div>	<div>5,297,137.36</div> <div>3,813,817.24</div> <div>839,973.70</div> <div>2,841,344.30</div>
16,073,250.87	16,277,777.29	14,308,521.54	14,232,033.22	12,792,272.60
<div>69,486,548.01</div> <div>34,006,953.37</div> <div>6,308,596.82</div>	<div>75,002,351.38</div> <div>36,331,919.08</div> <div>6,979,074.47</div>	<div>80,670,336.85</div> <div>38,253,203.71</div> <div>7,356,359.46</div>	<div>86,574,096.81</div> <div>40,146,511.52</div> <div>5,788,442.87</div>	<div>92,889,067.86</div> <div>41,962,273.09</div> <div>4,545,757.39</div>
109,802,098.20	118,313,344.93	126,279,900.02	132,509,051.20	139,397,098.34
<div>45,475,788.84</div> <div>4,880,499.77</div> <div>29,943,690.56</div>	<div>47,340,018.06</div> <div>4,952,718.62</div> <div>34,400,575.29</div>	<div>48,935,858.04</div> <div>4,609,214.16</div> <div>38,742,791.09</div>	<div>50,208,313.28</div> <div>4,387,586.13</div> <div>45,540,556.22</div>	<div>53,457,629.91</div> <div>1,795,295.61</div> <div>51,854,440.52</div>
80,299,979.17	86,693,311.97	92,287,863.29	100,136,455.63	107,107,366.04
206,175,328.24	221,284,434.19	232,876,284.85	246,877,540.05	259,296,736.98
7.4	7.0	5.6	5.4	5.2

CONSOLIDATED

YEAR.....	1941	1942	1943
Number of municipalities included.....	296	297	298
EARNINGS	\$ c.	\$ c.	\$ c.
Domestic service.....	14,287,828.19	14,874,937.14	14,933,681.48
Commercial light service.....	7,885,693.81	7,604,860.27	6,713,348.61
Commercial power service.....	14,591,053.03	15,433,320.91	15,687,273.31
Municipal power.....	1,832,379.38	2,026,826.92	2,031,027.12
Street lighting.....	1,880,560.01	1,820,216.28	1,686,149.29
Merchandise.....	58,695.51	50,276.58	31,300.28
Miscellaneous.....	526,771.53	680,825.29	782,170.04
Total earnings.....	41,062,981.46	42,491,263.39	41,864,950.13
EXPENSES			
Cost of power supplied by H-E.P.C....	26,017,260.84	26,459,900.78	26,587,877.32
Substation operation.....	552,820.54	581,259.02	612,227.01
Substation maintenance.....	316,677.27	361,643.95	370,797.74
Distribution system, operation and maintenance.....	993,886.44	1,087,818.81	1,143,720.84
Line transformer maintenance.....	114,304.18	133,888.95	145,094.88
Meter maintenance.....	409,252.72	440,877.18	443,307.27
Consumers' premises expenses.....	604,642.97	513,565.10	527,810.36
Street lighting, operation and maintenance.....	379,905.55	397,614.93	380,405.50
Promotion of business.....	262,910.03	193,692.33	171,894.14
Billing and collecting.....	1,074,173.90	1,171,345.63	1,226,185.63
General office, salaries and expenses....	1,053,367.83	1,067,535.39	1,117,334.29
Undistributed expense.....	480,317.80	553,599.71	510,448.34
Truck operation and maintenance.....	93,032.89	99,379.20	94,830.33
Interest.....	1,027,985.34	973,383.83	844,161.48
Sinking fund and principal payments on debentures.....	2,248,937.42	2,006,148.29	1,871,119.81
Total expenses.....	35,629,475.72	36,041,653.10	36,047,214.94
Surplus.....	5,433,505.74	6,449,610.29	5,817,735.19
Depreciation and other reserves.....	2,933,730.99	3,586,198.82	3,867,107.58
Surplus less depreciation.....	2,499,774.75	2,863,411.47	1,950,627.61

OPERATING REPORTS

1944	1945	1946	1947	1948
298	304	304	304	308
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
15,371,752.19	15,543,145.28	16,852,308.83	18,172,574.54	20,106,499.27
7,219,403.43	8,150,923.90	8,979,037.16	9,819,043.11	9,166,500.29
16,222,143.48	15,544,085.89	15,707,154.73	17,613,525.22	18,235,664.95
2,111,454.22	2,134,062.24	2,161,079.81	2,216,812.71	2,343,112.69
1,729,320.48	1,922,281.13	1,975,024.68	2,057,215.86	2,153,034.35
35,378.31	65,590.57	179,252.65	233,117.94	221,544.94
897,433.28	1,097,719.02	1,210,440.76	1,267,485.38	1,268,351.70
43,586,885.39	44,457,808.03	47,064,298.62	51,379,774.76	53,494,708.19
26,937,460.31	26,633,166.70	29,131,997.88	31,760,128.32	32,432,823.73
611,878.05	654,305.46	753,931.65	855,965.41	1,019,515.46
419,983.12	423,473.57	444,276.75	475,837.06	595,059.49
1,147,646.14	1,243,381.36	1,404,441.08	1,628,081.77	1,967,371.30
145,701.29	155,240.82	168,429.61	219,164.00	249,212.31
445,437.44	470,203.18	528,810.47	607,758.38	699,593.39
513,953.14	581,603.20	699,773.37	822,675.89	1,005,146.07
445,945.93	487,565.20	493,443.23	547,556.40	602,995.88
156,566.54	171,063.89	183,606.79	231,488.57	343,395.13
1,264,759.35	1,305,542.48	1,428,246.45	1,643,780.22	1,872,644.99
1,139,174.46	1,201,915.79	1,319,972.30	1,521,688.93	1,814,028.57
522,204.17	640,831.75	831,176.06	840,075.97	803,047.22
104,222.84	123,720.21	147,458.42	202,997.29	243,560.50
707,925.20	710,300.94	525,588.16	423,041.93	339,213.78
1,564,537.45	1,255,825.57	1,239,108.29	992,793.11	903,443.37
36,127,395.43	36,058,140.12	39,300,260.51	42,773,033.25	44,891,051.19
7,459,489.96	8,399,667.91	7,764,038.11	8,606,741.51	8,603,657.00
3,521,114.82	3,953,728.83	4,328,127.38	4,481,868.66	4,329,784.87
3,938,375.14	4,445,939.08	3,435,910.73	4,124,872.85	4,273,872.13

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—

Municipality.....	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population.....	2,367	P.V.	470	2,160	1,950
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,627.38			202.00	
Substation equipment.....	2,318.36				675.73
Distribution system—overhead....	37,543.39	12,968.22	8,200.91	30,063.47	37,704.42
Distribution system—underground.					
Line transformers.....	23,159.96	10,190.61	5,262.50	14,862.36	15,334.37
Meters.....	17,802.01	5,060.43	3,599.07	11,684.60	13,482.60
Street light equipment, regular....	2,791.72	3,042.88	457.58	3,300.55	5,851.18
Street light equipment, ornamental					
Miscellaneous construction expense	2,164.30	558.82	492.36	438.09	1,622.34
Steam or hydraulic plant.....					
Old plant.....					7,846.49
Total plant.....	87,407.12	31,820.96	18,012.42	60,551.07	82,517.13
Bank and cash balance.....	5,471.18	1,580.98		10,477.32	7,816.37
Securities and investments.....	7,000.00	14,000.00	9,500.00	33,000.00	5,000.00
Accounts receivable.....	1,523.43	688.30	732.55	2,458.69	492.40
Inventories.....	1,025.19				1.80
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	126,431.76	19,749.92	24,361.17	47,911.47	41,999.22
Other assets.....	4.23				
Total assets.....	228,862.91	67,840.16	52,606.14	154,398.55	137,826.92
LIABILITIES					
Debenture balance.....				83.16	
Accounts payable.....	58.82	60.00	67.06		
Bank overdraft.....			672.97		
Other liabilities.....	1,929.00		105.00	1,425.01	290.57
Total liabilities.....	1,987.82	60.00	845.03	1,508.17	290.57
RESERVES					
For equity in H-E.P.C. systems....	126,431.76	19,749.92	24,361.17	47,911.47	41,999.22
For depreciation.....	14,490.30	6,926.95	8,991.67	25,315.65	14,959.74
Other reserves.....		42.90			63.51
Total reserves.....	140,922.06	26,719.77	33,352.84	73,227.12	57,022.47
SURPLUS					
Debentures paid.....	14,500.00	8,072.65	6,883.38	38,299.23	37,736.04
Local sinking fund.....					
Operating surplus.....	71,453.03	32,987.74	11,524.89	41,364.03	42,777.84
Total surplus.....	85,953.03	41,060.39	18,408.27	79,663.26	80,513.88
Total liabilities, reserves and surplus.	228,862.91	67,840.16	52,606.14	154,398.55	137,826.92
Percentage of net debt to total assets	1.9	0.1	3.0	1.4	0.3

“A”

Hydro Municipalities as at December 31, 1948

Almonte 2,517	Alvinston 694	Amherstburg 3,280	Ancaster Twp. V.A.	Apple Hill P.V.	Arkona 395	Arnprior 4,316
\$ c. 10,037.25 24,581.90 36,638.66	\$ c. 2,046.97 17,580.71	\$ c. 56,349.31 650.78	\$ c. 354.71	\$ c. 169.06	\$ c. 10,959.66	\$ c. 8,241.00
21,319.20 15,423.65 6,368.80	5,169.47 4,794.88 1,343.59	45,475.04 22,218.79 2,986.19 5,598.72 4,366.55	21,283.25 8,637.55 1,863.96	1,723.37 1,510.52 421.12	3,521.48 2,951.04 1,366.13	24,917.04 19,567.75 10,787.03
1,541.66 105,153.80	971.10	1,982.47	7.85	304.61	66.36	
221,064.92	31,906.72	137,645.38	66,260.26	6,896.72	19,102.92	100,045.75
12,363.96 7,450.00 3,436.06 4,865.41	2,697.12 11,000.00 412.56	1,977.00 20,350.00 1,149.02 79.20	4,462.65 4,000.00 57.52 1,194.30	1,799.46 4,000.00 36.84	25.00 39,000.00 899.29 11,349.96	
2,937.99	24,372.57	95,948.16 5.04	31,583.37 82.26	5,502.20	10,727.86	25,270.12
252,118.34	70,388.97	257,153.80	99,899.65	20,919.09	35,667.08	176,590.12
21,020.38 3,077.40		1,313.60	1,164.92 12,512.98 1,580.39 288.35	419.11		7,102.02 7,446.17 822.77 2,088.07
748.57	55.00	6,393.83	15,546.64	419.11	20.69	17,459.03
24,846.35	55.00	7,707.43	43,070.81	9,297.51	16,771.86	33,979.27
2,937.99 44,613.10	24,372.57 13,598.65 59.50	95,948.16 36,020.02 413.56	31,583.37 11,439.42 48.02	5,502.20 3,795.31	10,727.86 6,044.00	25,270.12 8,709.15
47,551.09	38,030.72	132,381.74	12,945.36	5,080.12	13,112.83	48,367.11
50,979.62	23,529.24	32,053.60	28,336.84	6,122.35	5,761.70	76,784.71
128,741.28	8,774.01	85,011.03	41,282.20	11,202.47	18,874.53	125,151.82
179,720.90	32,303.25	117,064.63	99,899.65	20,919.09	35,667.08	176,590.12
252,118.34	70,388.97	257,153.80	22.8	2.7	0.1	11.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Arthur	Athens	Aurora	Aylmer	Ayr
Population.....	1,172	801	3,396	3,164	800
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....			1,000.00	11,147.41	125.00
Substation equipment.....			1,491.05		
Distribution system—overhead....	18,888.88	14,742.12	36,420.37	40,617.47	14,422.99
Distribution system—underground.					
Line transformers.....	11,633.92	3,308.57	31,954.81	34,009.61	8,664.07
Meters.....	5,994.72	3,960.02	19,664.64	19,528.58	5,458.41
Street light equipment, regular....	2,102.12	698.90	6,733.80	9,809.36	1,170.78
Street light equipment, ornamental					
Miscellaneous construction expense	525.11	1,109.17	7,224.93	4,551.86	1,077.46
Steam or hydraulic plant.....					
Old plant.....	1,086.62				4,002.53
Total plant.....	40,231.37	23,818.78	104,489.60	119,664.29	34,921.24
Bank and cash balance.....	359.63	1,936.41	1,462.89	2,004.89	1,372.69
Securities and investments.....	5,000.00	9,000.00	12,000.00	12,000.00	6,357.32
Accounts receivable.....	172.95	177.33	293.13	1,858.29	847.29
Inventories.....			45.38	408.69	
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	31,449.54	11,568.24	17,612.25	77,410.85	25,608.03
Other assets.....				1.18	
Total assets.....	77,213.49	46,500.76	135,903.25	213,348.19	69,106.57
LIABILITIES					
Debenture balance.....	2,260.39				382.11
Accounts payable.....	1,127.58			367.17	
Bank overdraft.....					
Other liabilities.....	347.60		811.00	969.66	73.64
Total liabilities.....	3,735.57		811.00	1,336.83	455.75
RESERVES					
For equity in H-E.P.C. systems....	31,449.54	11,568.24	17,612.25	77,410.85	25,608.03
For depreciation.....	18,155.86	6,856.26	33,703.77	31,600.60	8,788.45
Other reserves.....		206.06		678.99	
Total reserves.....	49,605.40	18,630.56	51,316.02	109,690.44	34,396.48
SURPLUS					
Debentures paid.....	22,739.61	14,000.00		38,701.92	17,121.27
Local sinking fund.....					
Operating surplus.....	1,132.91	13,870.20	83,776.23	63,619.00	17,133.07
Total surplus.....	23,872.52	27,870.20	83,776.23	102,320.92	34,254.34
Total liabilities, reserves and surplus.	77,213.49	46,500.76	135,903.25	213,348.19	69,106.57
Percentage of net debt to total assets	8.2	0.0	0.7	1.0	1.0

“A”—Continued

Hydro Municipalities as at December 31, 1948

Baden P.V.	Barrie 11,286	Bath 335	Beachville P.V.	Beamsville 1,508	Beaverton 906	Beeton 614
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
882.40	21,768.34		176.13		499.50	
	73,868.50					428.50
10,872.62	96,610.22	10,647.77	18,189.83	21,323.25	26,884.48	13,433.55
	66,582.89					
5,020.40	70,518.36	2,010.90	6,973.58	14,338.23	10,630.74	3,689.32
5,338.43	72,554.48	1,596.70	4,916.67	10,556.89	8,764.31	3,323.71
748.17	14,019.29	762.80	542.79	3,060.75	1,928.75	1,748.39
193.42	2,175.00	727.38	572.41		130.91	145.99
23,055.44	418,097.08	15,745.55	31,371.41	49,279.12	48,838.69	22,769.46
8,09' 11			470.42	2,601.94	1,172.10	1,426.20
6,500.00	118,100.00		21,500.00	22,000.00	7,200.00	7,000.00
753.12	3,559.14	190.63	376.83	211.44	34.69	121.17
	16,283.39				32.76	
53,822.49	279,575.96	4,127.68	70,113.99	14,149.23	33,491.76	24,978.18
	370.98				1,544.18	
92,222.16	835,986.55	20,063.86	123,832.65	88,241.73	92,314.18	56,295.01
		2,199.82				
		781.56	137.19	693.61	1,859.45	1,005.55
	1,818.13	11.31				
10.00	6,191.11	148.13		868.90	1,223.73	130.00
10.00	8,009.24	3,140.82	137.19	1,562.51	3,083.18	1,135.55
53,822.49	279,575.96	4,127.68	70,113.99	14,149.23	33,491.76	24,978.18
4,173.19	162,498.76	3,682.67	11,042.00	13,633.69	21,376.37	9,993.96
	400.00				400.00	90.68
57,995.68	442,474.72	7,810.35	81,155.99	27,782.92	55,268.13	35,062.82
5,000.00	65,365.68	5,300.18	5,536.66	37,500.00	12,839.34	13,610.31
29,216.48	320,136.91	3,812.51	37,002.81	21,396.30	21,123.53	6,486.33
34,216.48	385,502.59	9,112.69	42,539.47	58,896.30	33,962.87	20,096.64
92,222.16	835,986.55	20,063.86	123,832.65	88,241.73	92,314.18	56,295.01
0.0	1.4	19.7	0.3	2.1	5.2	3.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Belle River	Belleville	Blenheim	Bloomfield	Blyth
Population.....	1,194	16,976	2,265	633	838
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	204.20	44,883.51	14,773.69		
Substation equipment.....		137,832.98	1,264.64		
Distribution system—overhead.....	26,177.30	178,517.68	48,426.71	11,414.69	13,517.15
Distribution system—underground.....					
Line transformers.....	9,347.60	75,276.47	23,057.60	2,902.11	6,673.88
Meters.....	7,392.90	100,024.26	18,016.15	3,983.94	4,080.72
Street light equipment, regular.....	2,366.36	55,019.79	5,208.95	1,040.99	1,554.68
Street light equipment, ornamental.....		763.94	1,482.97		
Miscellaneous construction expense.....	178.16	16,625.20	781.40	1,403.42	625.68
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	45,666.52	608,943.83	113,012.11	20,745.15	26,452.11
Bank and cash balance.....	82.33	300.00	2,812.39	5,090.45	1,520.68
Securities and investments.....	2,000.00	85,000.00	4,000.00	12,100.00	8,000.00
Accounts receivable.....	50.48	25,022.61	579.13	64.74	255.58
Inventories.....		29,627.67	1,610.45		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	18,893.75	335,669.39	64,233.53	11,284.05	17,022.41
Other assets.....	0.84		89.50		
Total assets.....	66,693.92	1,084,563.50	186,337.11	49,284.39	53,250.78
LIABILITIES					
Debenture balance.....					
Accounts payable.....	67.50		1,935.97	672.46	1,389.99
Bank overdraft.....		31,332.01			
Other liabilities.....	249.94	14,483.47	1,807.97	162.00	228.79
Total liabilities.....	317.44	45,815.48	3,743.94	834.46	1,618.78
RESERVES					
For equity in H-E.P.C. systems.....	18,893.75	335,669.39	64,233.53	11,284.05	17,022.41
For depreciation.....	13,109.88	119,556.27	32,210.43	9,668.05	8,629.16
Other reserves.....		4,706.31	280.97		
Total reserves.....	32,003.63	459,931.97	96,724.93	20,952.10	25,651.57
SURPLUS					
Debentures paid.....	8,500.00	174,997.19	14,000.00	11,200.00	16,032.52
Local sinking fund.....					
Operating surplus.....	25,872.85	403,818.86	71,868.24	16,297.83	9,947.91
Total surplus.....	34,372.85	578,816.05	85,868.24	27,497.83	25,980.43
Total liabilities, reserves and surplus.....	66,693.92	1,084,563.50	186,337.11	49,284.39	53,250.78
Percentage of net debt to total assets.....	0.7	6.1	1.9	2.2	4.5

“A”—Continued

Hydro Municipalities as at December 31, 1948

Bobcaygeon 1,064	Bolton 748	Bothwell 734	Bowmanville 4,243	Bradford 1,307	Braeside 419	Brampton 6,152
\$ c. 740.00	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
28,872.31	13,954.64	9,164.06	56,899.76	30,258.00	3,537.13	65,904.65
10,309.56	8,786.35	3,879.58	21,460.27	12,779.22	2,290.28	63,480.28
9,178.09	5,332.22	4,583.93	29,206.63	11,102.87	1,916.25	42,763.25
5,178.61	902.39	4,495.83	10,192.02	975.72	62.94	12,830.87
139.00	1,974.68	1,131.22	9,645.98	2,106.92		4,480.43
75,000.00		742.79				
129,417.57	30,950.28	23,997.41	165,559.62	58,111.23	7,806.60	248,640.91
	3,604.30	2,453.00	6,393.35	2,188.22	3,352.13	18,695.37
	12,000.00	13,000.00	135,000.00	7,500.00		41,500.00
2,778.33	281.34	43.78	14,693.74	406.10	1,062.04	263.17
2,591.55	327.00		10,997.65	3,583.45		7,462.92
523.07	29,010.73	27,081.67	128,005.99	30,842.33	1,386.53	288,180.89
77.50			3.79			
135,388.02	76,173.65	66,575.86	460,654.14	102,631.33	13,607.30	604,743.26
38,792.95					5,144.34	
4,470.81	57.30	499.10	326.86		1,270.73	6,331.74
734.17						
	281.39	1,227.17	1,775.32	446.75	110.00	2,270.00
43,997.93	338.69	1,726.27	2,102.18	446.75	6,525.07	8,601.74
523.07	29,010.73	27,081.67	128,005.99	30,842.33	1,386.53	288,180.89
35,521.47	9,853.33	11,509.98	32,958.95	18,701.37	539.25	93,307.83
		15.13		29.88		150.00
36,044.54	38,864.06	38,606.78	160,964.94	49,573.58	1,925.78	381,638.72
51,207.05	12,500.00	5,534.19	71,000.00	23,351.06	855.66	69,050.64
4,138.50	24,470.90	20,708.62	226,587.02	29,259.94	4,300.79	145,452.16
55,345.55	36,970.90	26,242.81	297,587.02	52,611.00	5,156.45	214,502.80
135,388.02	76,173.65	66,575.86	460,654.14	102,631.33	13,607.30	604,743.26
32.6	0.7	1.6	0.6	0.6	53.4	2.7

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Brantford	Brantford Twp. V.A.	Brechin	Bridgeport	Brigden
Population.....	35,815		P.V.	P.V.	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	124,378.65	1,206.61			1,482.03
Substation equipment.....	282,266.98	34,194.40			
Distribution system—overhead.....	318,766.10	147,308.83	2,180.21	14,884.00	10,164.23
Distribution system—underground.....					
Line transformers.....	282,852.68	55,741.31	3,173.13	8,767.92	4,134.39
Meters.....	199,442.05	46,857.72	1,125.35	5,051.52	3,809.90
Street light equipment, regular.....	47,458.53	11,570.17	248.55	1,737.82	509.23
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	43,877.48	10,903.70	546.92	31.72	962.25
Steam or hydraulic plant.....					
Old plant.....	32,400.00				
Total plant.....	1,331,442.47	307,782.74	7,274.16	30,472.98	21,062.03
Bank and cash balance.....	2,172.75	3,490.32	3,200.28	308.15	4,033.48
Securities and investments.....	232,000.00	50,000.00	500.00	4,000.00	6,800.00
Accounts receivable.....	22,643.39	1,305.71	96.62	168.59	102.72
Inventories.....	36,812.53	10,325.40	18.09		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	1,606,699.53	69,915.63	11,723.09	12,294.09	18,919.42
Other assets.....	531.33	4,221.66			
Total assets.....	3,232,302.00	447,041.46	22,812.24	47,243.81	50,917.65
LIABILITIES					
Debenture balance.....		181,057.33	199.72		
Accounts payable.....	15,617.99	8,175.90	238.28	269.75	833.52
Bank overdraft.....	18,521.50			1,931.88	
Other liabilities.....	30,647.75	1,852.80	65.00	230.00	5.00
Total liabilities.....	64,787.24	191,086.03	503.00	2,431.63	838.52
RESERVES					
For equity in H-E.P.C. systems.....	1,606,699.53	69,915.63	11,723.09	12,294.09	18,919.42
For depreciation.....	534,671.47	60,862.74	2,746.69	9,715.52	7,807.98
Other reserves.....	8,781.84	65.86	8.49		97.24
Total reserves.....	2,150,152.84	130,844.23	14,478.27	22,009.61	26,824.64
SURPLUS					
Debentures paid.....	530,000.00	66,068.33	3,011.20	12,368.03	8,000.00
Local sinking fund.....					
Operating surplus.....	487,361.92	59,042.87	4,819.77	10,434.54	15,254.49
Total surplus.....	1,017,361.92	125,111.20	7,830.97	22,802.57	23,254.49
Total liabilities, reserves and surplus.....	3,232,302.00	447,041.46	22,812.24	47,243.81	50,917.65
Percentage of net debt to total assets.....	4.0	50.7	4.5	6.9	2.6

“A”—Continued

Hydro Municipalities as at December 31, 1948

Brighton	Brockville	Brussels	Burford	Burgessville	Burlington	Caledonia
1,875	11,854	766	P.V.	P.V.	4,943	1,485
\$ c. 600.00	\$ c. 50,699.35	\$ c.	\$ c. 202.00	\$ c.	\$ c. 18,281.47	\$ c. 656.01
25,459.91	63,335.09 116,469.50	17,197.01	12,581.85	3,968.02	3,900.00 102,991.18	25,653.00
8,889.72	78,803.65	6,396.56	8,239.64	4,870.51	41,396.89	14,264.75
9,482.52	65,866.15	5,990.45	6,819.00	1,874.76	34,292.15	11,035.05
1,305.85	30,601.41	1,707.79	481.50	261.02	10,349.92	2,667.87
1,986.10	4,591.60	1,821.74	115.69	40.00	10,142.12	1,067.68
47,724.10	410,366.75	33,113.55	28,439.68	11,014.31	221,353.73	55,344.36
4,481.06	59,735.83	3,135.67	938.76	15,675.02	2,285.25	
10,000.00	87,700.00	15,000.00	5,000.00	2,800.00	7,500.00	200.00
5,723.23	3,899.62	353.91	299.50	11.00	1,650.44	464.61
5,807.84	12,390.61	8.84	2,571.30			
23,057.38	314,449.07	22,213.79	23,648.68	8,797.78	11,543.31	38,748.73
384.57					33,799.12	
96,793.61	888,926.45	73,816.92	57,396.70	23,561.85	291,521.62	99,614.25
75.85	5,414.44	94.46	1,645.79	52.43	111,382.26	5,000.00
1,185.39	4,834.53	107.55	95.30	10.00	1,531.42	12.50
1,261.24	10,248.97	202.01	1,741.09	62.43	4,109.57	490.69
23,057.38	314,449.07	22,213.79	23,648.68	8,797.78	11,543.31	38,748.73
9,055.46	129,805.08	11,141.48	7,220.29	5,374.19	30,531.51	7,621.03
219.23	13,931.85				33,799.12	
32,332.07	458,186.00	33,355.27	30,868.97	14,171.97	75,873.94	46,369.76
25,000.00	174,869.92	21,000.00	9,000.00	3,500.00	49,117.74	4,624.00
38,200.30	245,621.56	19,259.64	15,786.64	5,827.45	49,506.69	43,117.30
63,200.30	420,491.48	40,259.64	24,786.64	9,327.45	98,624.43	47,741.30
96,793.61	888,926.45	73,816.92	57,396.70	23,561.85	291,521.62	99,614.25
1.7	1.8	0.4	5.2	0.4	47.5	9.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Campbell- ville P.V.	Canning- ton 808	Cardinal	Carleton Place 4,307	Cayuga 704
Population.....			1,755		
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				13,390.32	
Substation equipment.....				16,369.37	
Distribution system—overhead.....	3,219.88	14,346.02	15,073.71	54,002.20	24,903.15
Distribution system—underground.....					
Line transformers.....	1,643.46	8,654.27	6,200.21	21,937.10	11,946.36
Meters.....	1,228.85	5,978.98	5,135.29	24,516.25	6,599.76
Street light equipment, regular.....	335.61	2,197.68	1,061.30	7,114.66	1,461.17
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	6.82	65.25	527.00	2,899.18	348.03
Steam or hydraulic plant.....					
Old plant.....			3,474.80	5,289.19	
Total plant.....	6,434.62	31,242.20	31,472.31	145,518.27	45,258.47
Bank and cash balance.....	536.69	1,014.80	784.28	3,290.96	6,308.36
Securities and investments.....	3,600.00	6,000.00	2,500.00	42,500.00	5,200.00
Accounts receivable.....		1,061.90	244.82	934.95	217.17
Inventories.....		419.74		3,063.56	392.37
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	4,867.45	25,379.98	12,969.31	135,422.22	17,339.13
Other assets.....		489.00			1.63
Total assets.....	15,438.76	65,607.62	47,970.72	330,729.96	74,717.13
LIABILITIES					
Debenture balance.....			1,738.05		
Accounts payable.....	602.88	461.01	87.30	4,094.41	737.69
Bank overdraft.....					
Other liabilities.....		45.00	5.00	1,886.06	260.00
Total liabilities.....	602.88	506.01	1,830.35	5,980.47	997.69
RESERVES					
For equity in H-E.P.C. systems.....	4,867.45	25,379.98	12,969.31	135,422.22	17,339.13
For depreciation.....	2,330.71	14,213.87	4,512.14	27,766.84	11,561.03
Other reserves.....		64.05	29.40	797.72	152.30
Total reserves.....	7,198.16	39,657.90	17,510.85	163,986.78	29,052.46
SURPLUS					
Debentures paid.....	5,447.77	14,532.42	13,261.95	66,000.00	20,000.00
Local sinking fund.....					
Operating surplus.....	2,189.95	10,911.29	15,367.57	94,762.71	24,666.98
Total surplus.....	7,637.72	25,443.71	28,629.52	160,762.71	44,666.98
Total liabilities, reserves and surplus.....	15,438.76	65,607.62	47,970.72	330,729.96	74,717.13
Percentage of net debt to total assets.....	5.7	1.3	5.2	3.6	1.7

“A”—Continued

Hydro Municipalities as at December 31, 1948

Chatham	Chatsworth	Chesley	Chesterville	Chippawa	Clifford	Clinton
19,315	396	1,731	1,157	1,423	461	2,248
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
179,246.59	364.89	6,000.00	3,050.25	1,434.46		10,227.74
219,287.18		2,305.58				16,217.68
258,933.33	5,965.51	29,835.92	11,139.69	18,293.74	9,663.16	29,597.63
186,397.92						
162,253.41	3,947.69	16,761.71	5,989.71	10,925.29	4,499.32	17,594.00
106,045.98	2,828.89	11,488.49	6,459.78	7,503.26	3,091.92	15,663.28
33,240.69	582.77	2,890.75	1,575.03	7,539.72	1,014.93	5,748.22
35,426.10						
64,095.77	98.38	323.79	883.19	2,228.67	37.44	4,960.85
42,752.31						
1,287,679.28	13,788.13	69,606.24	29,097.65	47,925.14	18,306.77	100,009.40
50.00	933.47		5,721.93	1,511.74	376.70	25.00
50,000.00	1,000.00	8,000.00	7,000.00	4,500.00	4,000.00	19,500.00
39,182.20	538.01	155.30	732.22	12.00	77.00	1,265.11
28,204.48		802.55	141.59	214.10		5,738.35
676,500.99	8,093.73	60,815.83	41,961.31	28,704.69	12,935.69	78,655.35
6,803.34				6.54		
2,088,420.29	24,353.34	139,379.92	84,654.70	82,874.21	35,696.16	205,193.21
226,907.84					2,749.80	
280.15		14.85	2.65		1,619.97	153.64
40,262.49		2,429.45				1,433.66
44,327.83	50.23		52.00	1,030.00	5.00	1,281.45
311,778.31	50.23	2,444.30	54.65	1,030.00	4,374.77	2,868.75
676,500.99	8,093.73	60,815.83	41,961.31	28,704.69	12,935.69	78,655.35
253,625.57	4,750.34	21,667.24	9,926.65	10,897.20	5,685.42	30,403.96
43,340.05						455.94
973,466.61	12,844.07	82,483.07	51,887.96	39,601.89	18,621.11	109,515.25
343,092.16	5,014.10	24,410.34	5,889.32	13,350.00	5,250.20	44,500.00
460,083.21	6,444.94	30,042.21	26,822.77	28,892.32	7,450.08	48,309.21
803,175.37	11,459.04	54,452.55	32,712.09	42,242.32	12,700.28	92,809.21
2,088,420.29	24,353.34	139,379.92	84,654.70	82,874.21	35,696.16	205,193.21
20.1	0.3	3.1	0.1	1.9	19.2	2.3

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Cobden	Cobourg	Colborne	Coldwater	Collingwood
Population.....	670	6,017	1,033	593	6,799
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		32,227.73		275.00	15,950.08
Substation equipment.....		1,668.35			25,847.23
Distribution system—overhead.....	7,007.55	114,138.68	12,973.39	11,441.31	76,514.16
Distribution system—underground.....					
Line transformers.....	4,224.02	41,093.05	3,269.81	8,194.44	46,172.39
Meters.....	3,448.52	43,514.54	5,600.04	4,985.97	38,841.46
Street light equipment, regular.....	637.21	17,880.46	2,629.54	3,300.29	20,670.60
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	78.57	9,924.44	2,584.76	225.90	3,996.55
Steam or hydraulic plant.....					
Old plant.....	2,853.85				
Total plant.....	18,249.72	260,447.25	27,057.54	28,422.91	227,992.47
Bank and cash balance.....	4,588.07	1,716.36	2,906.59	4,455.19	
Securities and investments.....		45,000.00	5,500.00	3,500.00	15,000.00
Accounts receivable.....	55.65	9,750.55	4,274.24	1,449.09	7,542.47
Inventories.....		17,750.44	3,985.92		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	4,793.08	98,630.71	9,840.33	23,667.62	231,845.10
Other assets.....		33.68			656.70
Total assets.....	27,686.52	433,328.99	53,564.62	61,494.81	483,036.74
LIABILITIES					
Debenture balance.....	183.13	27,368.82	3,111.15		
Accounts payable.....	224.39			896.34	164.90
Bank overdraft.....					3,133.24
Other liabilities.....	352.50	4,705.35	337.00	225.37	4,141.32
Total liabilities.....	760.02	32,074.17	3,448.15	1,121.71	7,439.46
RESERVES					
For equity in H-E.P.C. systems.....	4,793.08	98,630.71	9,840.33	23,667.62	231,845.10
For depreciation.....	389.52	67,024.62	5,645.46	11,832.11	62,836.11
Other reserves.....				80.00	
Total reserves.....	5,182.60	165,655.33	15,485.79	35,579.73	294,681.21
SURPLUS					
Debentures paid.....	7,620.14	78,624.68	9,083.44	6,867.47	38,183.42
Local sinking fund.....					
Operating surplus.....	14,123.76	156,974.81	25,547.24	17,925.90	142,732.65
Total surplus.....	21,743.90	235,599.49	34,630.68	24,793.37	180,916.07
Total liabilities, reserves and surplus.....	27,686.52	433,328.99	53,564.62	61,494.81	483,036.74
Percentage of net debt to total assets.....	3.3	9.5	7.8	3.0	3.0

“A”—Continued

Hydro Municipalities as at December 31, 1948

Comber	Cookstown	Cottam	Courtright	Creemore	Dashwood	Delaware
P.V.	P.V.	P.V.	385	752	P.V.	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
498.22	70.00	475.63				
	392.95					
9,960.42	10,592.56	12,267.78	7,591.00	7,842.66	4,208.38	5,774.10
8,745.42	4,085.45	4,867.86	2,022.18	5,498.16	4,236.55	1,950.84
3,815.23	3,351.05	3,257.11	1,698.94	4,524.94	2,539.45	1,811.32
829.81	1,162.35	439.86	470.44	358.56	364.52	205.24
121.61	47.70	426.70	558.76	10.80	291.87	203.81
23,970.71	19,702.06	21,734.94	12,341.32	18,235.12	11,640.77	9,945.31
209.75	3,806.24	1,771.86		1,174.52	1,654.58	3,140.38
5,000.00	11,000.00	3,000.00	8,000.00	7,000.00	5,000.00	2,500.00
50.02	374.87	59.49	82.39	74.38	37.18	131.58
63.90						
29,029.73	9,400.51	8,127.38	9,419.01	19,630.15	14,268.04	6,002.12
58,324.11	44,283.68	34,693.67	29,842.72	46,114.17	32,600.57	21,719.39
	531.20	110.26	918.09	1,037.72	43.95	66.52
			579.32			
78.23	61.75	150.71	5.00	186.00		10.00
78.23	592.95	260.97	1,502.41	1,223.72	43.95	76.52
29,029.73	9,400.51	8,127.38	9,419.01	19,630.15	14,268.04	6,002.12
9,571.73	10,745.59	6,872.86	3,914.93	5,784.91	4,565.14	2,197.63
25.76		37.95	5.24	41.00		22.53
38,627.22	20,146.10	15,038.19	13,339.18	25,456.06	18,833.18	8,222.28
7,700.00	12,000.85	9,000.22	8,138.35	2,823.61	3,400.00	4,000.00
11,918.66	11,543.78	10,394.29	6,862.78	16,610.78	10,323.44	9,420.59
19,618.66	23,544.63	19,394.51	15,001.13	19,434.39	13,723.44	13,420.59
58,324.11	44,283.68	34,693.67	29,842.72	46,114.17	32,600.57	21,719.39
0.3	1.7	1.0	7.3	4.6	0.2	0.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Delhi	Deseronto	Dorchester	Drayton	Dresden
Population.....	2,330	1,171	P.V.	585	1,935
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,472.54	1,097.41			462.80
Substation equipment.....		161.18			523.00
Distribution system—overhead.....	39,593.96	15,630.01	10,859.63	10,825.59	29,402.16
Distribution system—underground.....					
Line transformers.....	22,261.37	9,250.16	4,109.36	7,707.89	16,245.15
Meters.....	18,277.61	7,267.49	3,716.46	4,565.04	14,111.26
Street light equipment, regular.....	5,423.94	432.60	2,232.86	872.89	1,747.37
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	7,266.72	747.96	1,024.20	82.03	3,274.69
Steam or hydraulic plant.....					
Old plant.....	28,518.74				
Total plant.....	123,814.88	34,586.81	21,942.51	24,053.44	65,766.43
Bank and cash balance.....	7,362.20	1,668.69		687.32	75.00
Securities and investments.....	18,500.00	6,000.00	6,400.00	3,000.00	8,500.00
Accounts receivable.....	123.05	2,470.28	430.14	47.76	2,090.64
Inventories.....	7,453.29	4,025.36	370.85		5,669.98
Sinking fund on local debentures.....					
Equity in H-E P C systems.....	17,695.33	14,250.38	12,799.33	21,526.04	54,240.55
Other assets.....	0.97			5.00	53.00
Total assets.....	174,949.72	63,001.52	41,942.83	49,319.56	136,395.60
LIABILITIES					
Debenture balance.....	53,222.39		1,055.81		
Accounts payable.....		155.72	243.37	102.08	862.82
Bank overdraft.....					2,332.95
Other liabilities.....	1,802.75	363.80	24.22	25.00	373.00
Total liabilities.....	55,025.14	519.52	1,323.40	127.08	3,568.77
RESERVES					
For equity in H-E.P.C. systems....	17,695.33	14,250.38	12,799.33	21,526.04	54,240.55
For depreciation.....	18,747.79	3,517.85	6,296.01	9,336.25	7,541.33
Other reserves.....	97.12				605.34
Total reserves.....	36,540.24	17,768.23	19,095.34	30,862.29	62,387.22
SURPLUS					
Debentures paid.....	31,777.61	15,000.00	4,300.00	9,500.00	11,423.24
Local sinking fund.....					
Operating surplus.....	51,606.73	29,713.77	17,224.09	8,830.19	59,016.37
Total surplus.....	83,384.34	44,713.77	21,524.09	18,330.19	70,439.61
Total liabilities, reserves and surplus.....	174,949.72	63,001.52	41,942.83	49,319.56	136,395.60
Percentage of net debt to total assets.....	34.0	1.1	4.5	0.5	4.3

“A”—Continued

Hydro Municipalities as at December 31, 1948

Drumbo P.V.	Dublin P.V.	Dundalk 755	Dundas 5,933	Dunnville 4,398	Durham 2,129	Dutton 818
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	218.00	19,678.42	3,821.21	210.28	75.11
5,942.41	6,549.68	8,845.39	24,228.53	39,710.85	1,536.82	.....
.....	.....	.....	64,278.98	43,800.74	25,722.13	11,194.25
3,034.29	3,730.63	6,935.12	36,317.63	37,374.33	19,404.42	8,120.08
2,728.41	1,897.35	4,554.76	34,305.56	29,161.94	10,969.43	4,413.81
368.14	582.93	1,393.25	12,293.48	10,221.81	2,975.20	754.38
.....	.....	.....	1,154.52	.....	.....	.....
235.58	.....	153.00	5,716.60	7,071.23	330.57	674.05
.....	.....	.....	.....	10,717.62	.....	.....
12,308.83	12,760.59	22,099.52	197,973.72	181,879.73	61,148.85	25,231.68
576.42	3,380.22	2,619.64	2,863.64	35.00	2,343.12	913.89
8,500.00	1,500.00	14,000.00	30,500.00	35,000.00	3,500.00	7,500.00
675.19	87.79	161.66	490.53	659.57	519.70	173.29
.....	.....	.....	221.05	3,127.57	78.92	.....
11,310.54	9,078.14	21,876.97	241,406.63	110,354.02	50,599.45	32,490.54
.....	.....	.....	335.58	.....	.....	.....
33,370.98	26,806.74	60,757.79	473,791.15	331,055.89	118,190.04	66,309.40
.....
399.55	10.34	.....	217.27	856.86	.....	.....
.....	.....	.....	.....	909.90	5,045.37	157.49
25.00	8.00	.....	10,651.18	3,177.66	.....	.....
.....	.....	.....	.....	2,259.98	32.00	187.36
424.55	18.34	.....	10,868.45	7,204.40	5,077.37	344.85
11,310.54	9,078.14	21,876.97	241,406.63	110,354.02	50,599.45	32,490.54
7,314.26	7,358.60	8,707.72	85,429.28	52,329.69	16,870.14	12,093.87
.....	.....	.....	179.61	.....	.....	87.70
18,624.80	16,436.74	30,584.69	327,015.52	162,683.71	67,469.59	44,672.11
4,500.00	6,200.00	5,727.27	53,000.00	74,643.14	25,323.97	8,407.49
9,821.63	4,151.66	24,445.83	82,907.18	86,524.64	20,319.11	12,884.95
14,321.63	10,351.66	30,173.10	135,907.18	161,167.78	45,643.08	21,292.44
33,370.98	26,806.74	60,757.79	473,791.15	331,055.89	118,190.04	66,309.40
1.9	0.1	0.0	4.2	3.3	7.5	1.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	East York Twp. V.A.	Elmira	Elmvale P.V.	Elmwood P.V.
Population.....		2,367		
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	49,982.77	9,008.36	156.25	
Substation equipment.....	148,734.06	19,814.01	2,273.07	
Distribution system—overhead.....	525,364.81	47,363.67	13,189.21	5,767.31
Distribution system—underground.....		540.21		
Line transformers.....	195,198.71	34,656.75	6,951.25	3,105.49
Meters.....	231,336.91	20,748.56	5,408.67	2,158.91
Street light equipment, regular.....	84,477.65	2,792.06	6,009.93	721.69
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	29,187.20	1,854.00	550.34	
Steam or hydraulic plant.....				
Old plant.....		2,168.08		
Total plant.....	1,264,282.11	138,945.70	34,538.72	11,753.40
Bank and cash balance.....	3,151.05	13,247.34	885.06	3,020.54
Securities and investments.....		34,500.00	1,500.00	3,100.00
Accounts receivable.....	41,880.70	877.83	29.92	461.10
Inventories.....	20,927.33			10.41
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	534,178.47	129,107.48	23,953.70	7,380.65
Other assets.....	799.00	65.28		
Total assets.....	1,865,218.66	316,743.63	60,907.40	25,726.10
LIABILITIES				
Debenture balance.....		2,238.06		
Accounts payable.....	99,717.41	156.76	219.91	250.31
Bank overdraft.....				
Other liabilities.....	12,695.36	1,230.98		1,295.00
Total liabilities.....	112,412.77	3,625.80	219.91	1,545.31
RESERVES				
For equity in H-E.P.C. systems.....	534,178.47	129,107.48	23,953.70	7,380.65
For depreciation.....	236,860.74	48,923.30	6,235.62	4,649.25
Other reserves.....	2,542.72		3.68	
Total reserves.....	773,581.93	178,030.78	30,193.00	12,029.90
SURPLUS				
Debentures paid.....	349,763.36	34,930.44	7,000.00	6,106.38
Local sinking fund.....				
Operating surplus.....	629,460.60	100,156.61	23,494.49	6,044.51
Total surplus.....	979,223.96	135,087.05	30,494.49	12,150.89
Total liabilities, reserves and surplus.....	1,865,218.66	316,743.63	60,907.40	25,726.10
Percentage of net debt to total assets.....	8.4	1.9	0.6	8.4

“A”—Continued

Hydro Municipalities as at December 31, 1948

Elora	Embro	Erieau	Erie Beach	Essex	Etobicoke Twp. V.A.	Exeter
1,293	462	297	50	2,214		1,980
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,524.54				11,913.64	40,731.80	9,954.19
20,115.50	11,833.73	19,791.71	3,876.05	50,682.90	26,359.31	
				442.55	552,249.02	41,618.50
14,336.56	9,104.90	6,307.02	1,207.82	26,714.84	262,927.35	22,901.22
8,599.33	3,159.67	5,156.76	1,368.34	16,559.38	177,120.59	16,346.12
1,568.76	535.73	794.23	306.37	2,108.73	74,904.91	5,149.90
				7,205.06	2,689.44	
1,365.93	407.18	379.90	375.03	3,411.55	62,072.23	6,870.28
47,510.62	25,041.21	32,429.62	7,133.61	119,038.65	1,199,054.65	102,840.21
400.10	1,536.38	695.44		1,076.21	40,844.90	5,065.57
13,500.00	3,000.00	1,000.00	1,000.00	5,000.00	7,000.00	10,500.00
124.50	30.44	169.19	10.56	350.31	17,850.68	914.40
366.52				7,576.35	58,773.39	3,713.32
60,570.78	18,607.23	12,701.23	2,853.53	55,809.93	452,167.65	73,156.59
		1,385.30		0.72	1,158.19	
122,472.52	48,215.26	48,380.78	10,997.70	188,852.17	1,776,849.46	196,190.09
				7,733.70	356,242.42	
293.69		152.57	15.56	1,549.86	13,575.43	1,145.12
762.83			724.54			
348.25	55.00	42.50	45.00	7,912.73	17,917.35	1,305.00
1,404.77	55.00	195.07	785.10	17,196.29	387,735.20	2,450.12
60,570.78	18,607.23	12,701.23	2,853.53	55,809.93	452,167.65	73,156.59
20,082.61	8,977.53	4,227.96	581.75	30,451.86	178,580.07	27,894.50
	9.58	37.41	18.90	438.65	1,196.61	534.06
80,653.39	27,594.34	16,966.60	3,454.18	86,700.44	631,944.33	101,585.15
13,000.00	7,500.00	6,883.13	3,300.00	14,766.30	259,452.98	20,000.05
27,414.36	13,065.92	24,335.98	3,458.42	70,189.14	497,716.95	72,154.77
40,414.36	20,565.92	31,219.11	6,758.42	84,955.44	757,169.93	92,154.82
122,472.52	48,215.26	48,380.78	10,997.70	188,852.17	1,776,849.46	196,190.09
2.3	0.2	0.5	9.6	1.4	29.1	2.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Fergus	Finch	Flesherton	Fonthill	Forest
Population.....	3,051	372	468	1,148	1,709
ASSETS					
Lands and buildings.....	\$ 2,442.52	\$	\$ 408.78	\$	\$ 6,576.61
Substation equipment.....	16,583.00				
Distribution system—overhead.....	39,492.38	8,770.39	6,104.75	18,448.08	25,131.02
Distribution system—underground.....					
Line transformers.....	33,228.95	4,169.19	5,669.67	9,217.68	19,547.75
Meters.....	19,036.87	3,380.46	3,251.34	8,421.71	13,764.34
Street light equipment, regular.....	6,729.07	504.07	1,035.23	3,121.97	6,997.07
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	3,100.76	124.24		776.31	2,450.47
Steam or hydraulic plant.....					
Old plant.....				3,500.00	
Total plant.....	120,613.55	16,948.35	16,469.77	43,485.75	74,467.26
Bank and cash balance.....	104.12	755.53	2,140.85	2,183.97	2,366.67
Securities and investments.....	20,000.00	3,500.00	9,000.00		33,510.00
Accounts receivable.....	1,417.43	820.99	31.90	148.65	493.46
Inventories.....	3,305.91		28.95		1,592.87
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	113,416.41	8,103.26	10,523.00	12,362.34	59,413.66
Other assets.....					58.91
Total assets.....	258,857.42	30,128.13	38,194.47	58,180.71	171,902.83
LIABILITIES					
Debenture balance.....					
Accounts payable.....	1,009.62		426.42	867.16	46.01
Bank overdraft.....	7,375.05				
Other liabilities.....	732.57	195.95	67.00	279.30	126.46
Total liabilities.....	9,117.24	195.95	493.42	1,146.46	172.47
RESERVES					
For equity in H-E.P.C. systems.....	113,416.41	8,103.26	10,523.00	12,362.34	59,413.66
For depreciation.....	31,866.68	4,315.60	5,670.41	7,878.41	29,792.85
Other reserves.....	198.59				85.89
Total reserves.....	145,481.68	12,418.86	16,193.41	20,240.75	89,292.40
SURPLUS					
Debentures paid.....	42,000.00	7,000.00	5,830.88	22,500.00	23,357.13
Local sinking fund.....					
Operating surplus.....	62,258.50	10,513.32	15,676.76	14,293.50	59,080.83
Total surplus.....	104,258.50	17,513.32	21,507.64	36,793.50	82,437.96
Total liabilities, reserves and surplus.....	258,857.42	30,128.13	38,194.47	58,180.71	171,902.83
Percentage of net debt to total assets.....	6.3	0.9	1.8	2.5	0.2

“A”—Continued

Hydro Municipalities as at December 31, 1948

Forest Hill	Galt	Georgetown	Glencoe	Goderich	Grand Valley
15,500	16,741	3,080	881	4,488	661
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
43,815.63	244,828.09	5,331.06	3,587.66	31,825.24	36.50
80,767.90	162,970.66	14,084.11		36,358.64	
232,154.78	322,383.81	53,152.45	26,153.03	83,610.27	13,278.48
2,841.54	4,252.94				
132,479.65	172,644.79	43,955.21	12,103.30	39,734.89	5,671.47
83,330.87	116,687.81	27,594.96	6,160.54	32,306.07	5,074.34
11,424.24	80,336.54	5,542.11	5,138.40	9,419.03	1,067.12
24,066.13					
32,074.60	27,213.08	5,949.07	1,533.84	13,190.14	223.70
				14,622.15	
642,955.34	1,131,317.72	155,608.97	54,676.77	261,066.43	25,351.61
57,851.53	70,780.10		1,451.18	5,197.50	1,823.73
179,000.00	100,000.00	5,317.99	15,100.00	44,000.00	11,000.00
3,714.87	6,612.29	1,240.58	783.97	1,162.23	106.47
10,653.22	49,017.00	11,122.00	481.91	1,894.04	
354,929.38	942,973.46	181,419.97	33,957.98	206,803.55	20,166.95
	982.77	199.50	0.28		
1,249,104.34	2,301,683.34	354,909.01	106,452.09	520,123.75	58,448.76
168,330.78				9,858.48	
12,439.06	208.84	36.60	2,365.59	2,626.10	405.15
		1,428.40			
38,001.57	7,724.00	3,271.55	440.00	4,108.84	
218,771.41	7,932.84	4,736.55	2,805.59	16,593.42	405.15
354,929.38	942,973.46	181,419.97	33,957.98	206,803.55	20,166.95
186,278.56	490,609.81	41,134.52	17,318.53	118,573.17	13,318.25
750.00	5,525.00		351.64	819.63	
541,957.94	1,439,108.27	222,554.49	51,628.15	326,196.35	33,485.20
194,450.82	518,001.95	20,000.00	20,112.88	86,229.57	11,000.00
293,924.17	336,640.28	107,617.97	31,905.47	91,104.41	13,558.41
488,374.99	854,642.23	127,617.97	52,018.35	177,333.98	24,558.41
1,249,104.34	2,301,683.34	354,909.01	106,452.09	520,123.75	58,448.76
22.4	0.6	2.7	3.9	5.3	1.1

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Granton	Gravenhurst	Grimsby	Guelph
Population.....	P.V.	2,731	2,414	25,077
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		15,684.91		21,539.57
Substation equipment.....		10,936.03		183,332.02
Distribution system—overhead.....	6,590.57	42,311.57	45,716.35	362,146.20
Distribution system—underground.....		1,941.77		28,847.47
Line transformers.....	2,367.13	18,805.92	27,281.43	173,131.10
Meters.....	2,084.72	20,289.24	21,246.99	144,221.41
Street light equipment, regular.....	180.78	4,841.33	2,603.17	48,798.21
Street light equipment, ornamental.....			1,925.00	
Miscellaneous construction expense.....	113.08	1,663.80	679.43	10,117.41
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	11,336.28	116,474.57	99,452.37	972,133.39
Bank and cash balance.....			6,023.61	6,119.37
Securities and investments.....	3,700.00	18,000.00	21,000.00	
Accounts receivable.....	32.44	1,066.66	104.41	16,734.91
Inventories.....		1,252.75	132.28	40,913.87
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	12,767.26	59,111.67	14,014.26	1,110,269.10
Other assets.....				508.41
Total assets.....	27,835.98	195,905.65	140,726.93	2,146,679.05
LIABILITIES				
Debenture balance.....				
Accounts payable.....	276.38	91.00	971.64	30,231.15
Bank overdraft.....	548.80	1,219.04		
Other liabilities.....	65.00	1,245.00	3,477.90	6,817.69
Total liabilities.....	890.18	2,555.04	4,449.54	37,048.84
RESERVES				
For equity in H-E.P.C. systems.....	12,767.26	59,111.67	14,014.26	1,110,269.10
For depreciation.....	3,721.89	32,400.58	14,589.50	292,149.99
Other reserves.....	60.00	472.91		777.26
Total reserves.....	16,549.15	91,985.16	28,603.76	1,403,196.35
SURPLUS				
Debentures paid.....	3,500.00	44,278.97	85,344.00	145,000.00
Local sinking fund.....				
Operating surplus.....	6,896.65	57,086.48	22,329.63	561,433.86
Total surplus.....	10,396.65	101,365.45	107,673.63	706,433.86
Total liabilities, reserves and surplus.....	27,835.98	195,905.65	140,726.93	2,146,679.05
Percentage of net debt to total assets.....	5.9	1.8	2.0	3.6

“A”—Continued

Hydro Municipalities as at December 31, 1948

Hagersville	Hamilton*	Hanover	Harriston	Harrow	Hastings	Havelock
1,604	179,565	3,535	1,545	1,304	800	1,156
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
864.37	1,158,559.84	3,894.32	395.25	2,318.16		572.90
24,061.02	2,659,758.83	9,271.19	600.00			
	1,515,552.83	57,452.28	25,206.67	27,520.27	19,679.42	20,867.07
	1,051,525.45					
17,424.62	1,254,989.25	34,263.86	15,277.49	16,702.86	5,268.73	4,153.07
12,814.13	1,001,937.92	23,915.21	11,752.22	11,631.05	6,135.95	7,013.04
1,311.22	321,634.78	5,661.63	1,332.00	1,175.26	1,338.82	1,960.83
849.95	54,047.89	4,991.19	2,291.29	58.78	669.85	
					1,733.13	
57,325.31	9,018,006.79	139,449.68	56,854.92	59,406.38	34,825.90	34,566.91
7,703.79	720,802.06	12,381.34	2,528.84	4,838.12	1,888.95	4,889.66
32,000.00	1,950,000.00	83,910.18	11,400.00	9,200.00	6,000.00	16,500.00
1,359.58	413,390.16	600.43	717.90	465.73	242.78	32.30
336.80	356,147.36	342.23	113.26	408.08		
124,471.23	9,729,100.09	135,532.23	57,417.79	47,370.44	7,626.92	20,074.22
0.45	124,639.62					
223,197.16	22,312,086.08	372,216.09	129,032.71	121,688.75	50,584.55	76,063.09
	149,000.00				4,740.99	
	353,239.52		21.80	585.74	294.04	670.94
674.43	36,281.31	1,320.41	65.72	425.00	527.40	65.00
674.43	538,520.83	1,320.41	87.52	1,010.74	5,562.43	735.94
124,471.23	9,729,100.09	135,532.23	57,417.79	47,370.44	7,626.92	20,074.22
23,422.36	2,354,125.73	82,559.38	18,061.50	18,697.49	8,733.52	15,636.24
	1,415,472.10			136.30		
147,893.59	13,498,697.92	218,091.61	75,479.29	66,204.23	16,360.44	35,710.46
8,000.00	3,911,275.19	80,162.29	25,818.03	12,000.00	16,259.01	26,234.18
66,629.14	4,363,592.14	72,641.78	27,647.87	42,473.78	12,402.67	13,382.51
74,629.14	8,274,867.33	152,804.07	53,465.90	54,473.78	28,661.68	39,616.69
223,197.16	22,312,086.08	372,216.09	129,032.71	121,688.75	50,584.55	76,063.09
0.7	4.3	0.5	0.1	1.4	12.9	1.3

*Includes 1948 power adjustment and equity in H-E.P.C. system.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Hensall	Hespeler	Highgate	Holstein	Humberstone
Population.....	697	3,527	342	P.V.	3,300
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		16,094.46			26,622.65
Substation equipment.....		38,946.53			
Distribution system—overhead.....	14,578.88	41,511.48	9,750.71	2,569.46	33,999.61
Distribution system—underground.....					
Line transformers.....	10,792.26	41,913.13	3,520.29	2,053.41	22,019.91
Meters.....	5,228.10	18,499.39	2,173.73	1,071.96	15,458.74
Street light equipment, regular.....	3,546.12	10,883.97	599.26	215.54	1,715.26
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	670.36	6,368.26	491.60	14.25	3,319.16
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	34,815.72	174,217.22	16,535.59	5,924.62	103,135.33
Bank and cash balance.....	457.76	31.76		1,755.56	277.63
Securities and investments.....	12,000.00	31,000.00	6,000.00	4,500.00	2,500.00
Accounts receivable.....	50.98	1,697.18	28.38	64.94	414.18
Inventories.....		1,255.25			1,358.54
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	28,147.31	207,118.56	15,526.27	4,321.95	39,148.35
Other assets.....					
Total assets.....	75,471.77	415,319.97	38,090.24	16,567.07	146,834.03
LIABILITIES					
Debenture balance.....		3,730.10			
Accounts payable.....	1,250.01	739.66	79.47	343.05	5,072.71
Bank overdraft.....			1,218.11		
Other liabilities.....	20.00	1,330.00	75.00		2,083.15
Total liabilities.....	1,270.01	5,799.76	1,372.58	343.05	7,155.86
RESERVES					
For equity in H-E.P.C. systems.....	28,147.31	207,118.56	15,526.27	4,321.95	39,148.35
For depreciation.....	13,606.26	25,813.08	7,045.28	2,067.50	11,599.77
Other reserves.....		125.13			
Total reserves.....	41,753.57	233,056.77	22,571.55	6,389.45	50,748.12
SURPLUS					
Debentures paid.....	12,000.00	73,840.41	5,000.00	2,762.05	32,000.00
Local sinking fund.....					
Operating surplus.....	20,448.19	102,623.03	9,146.11	7,072.52	56,930.05
Total surplus.....	32,448.19	176,463.44	14,146.11	9,834.57	88,930.05
Total liabilities, reserves and surplus.....	75,471.77	415,319.97	38,090.24	16,567.07	146,834.03
Percentage of net debt to total assets.....	2.7	2.8	6.1	2.8	6.6

“A”—Continued

Hydro Municipalities as at December 31, 1948

Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville	Kincardine
3,177	6,140	1,009	569	1,412	2,630
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
353.52	16,650.86	281.20		4,719.34	6,740.17
647.30	51,338.29	100.00			7,512.39
30,204.71	70,228.70	10,473.40	11,660.06	24,188.13	60,484.39
24,390.20	53,455.54	4,084.13	6,275.24	11,865.40	25,091.85
18,774.61	40,277.74	5,891.60	3,941.79	10,843.49	17,264.25
9,544.71	5,642.35	2,521.96	931.82	1,173.70	9,911.16
	4,597.59				
1,712.72	12,249.54	621.40	195.20	639.15	1,790.44
		575.00			
85,627.77	254,440.61	24,548.69	23,004.11	53,429.21	128,794.65
818.32	1,224.40	2,147.81	4,750.80	1,257.22	1,459.42
7,000.00		8,000.00	13,500.00	12,000.00	17,000.00
6,357.08	1,163.41	673.10	226.26	3,410.17	213.60
7,582.15	1,757.79	1,011.03	747.87	2,913.52	314.79
103,813.60	311,087.71	4,905.38	25,487.13	35,304.38	74,796.64
1,246.18	85.27				
212,445.10	569,759.19	41,286.01	67,716.17	108,314.50	222,579.10
340.07	14,642.62	76.83		73.85	2,392.81
969.64	7,201.94	386.42		222.69	659.81
1,309.71	21,844.56	463.25		296.54	3,052.62
103,813.60	311,087.71	4,905.38	25,487.13	35,304.38	74,796.64
22,690.16	34,812.71	3,602.48	8,436.23	15,663.79	28,777.08
235.42	358.26				41.62
126,739.18	346,258.68	8,507.86	33,923.36	50,968.17	103,615.34
15,697.39	79,800.00		10,500.00	19,506.62	60,000.00
68,698.82	121,855.95	32,314.90	23,292.81	37,543.17	55,911.14
84,396.21	201,655.95	32,314.90	33,792.81	57,049.79	115,911.14
212,445.10	569,759.19	41,286.01	67,716.17	108,314.50	222,579.10
1.2	8.6	1.3	0.0	0.4	2.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Kingston	Kingsville	Kirkfield	Kitchener
Population.....	31,596	2,431	P.V.	39,722
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	306,439.41	8,730.87		317,597.05
Substation equipment.....	327,817.98			538,782.89
Distribution system—overhead.....	308,158.97	40,638.65	5,259.24	575,924.58
Distribution system—underground.....	307,375.84			164,384.93
Line transformers.....	173,784.30	18,557.80	1,854.10	352,271.85
Meters.....	179,798.47	19,774.96	959.33	243,317.88
Street light equipment, regular.....	86,548.39	1,752.81	379.00	93,266.03
Street light equipment, ornamental.....		19,200.00		118,465.71
Miscellaneous construction expense.....	52,900.07	116.96		57,561.62
Steam or hydraulic plant.....	17,665.40			
Old plant.....				52,363.91
Total plant.....	1,760,488.83	108,772.05	8,451.67	2,513,936.45
Bank and cash balance.....	41,099.21	25.00	1,912.76	20,276.55
Securities and investments.....	385,000.00	32,500.00	3,000.00	
Accounts receivable.....	79,575.65	3,406.18	13.56	90,675.24
Inventories.....	57,944.27			139,375.41
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	312,612.87	70,627.84	5,195.22	2,247,892.21
Other assets.....	3,975.67			1,072.27
Total assets.....	2,640,696.50	215,331.07	18,573.21	5,013,228.13
LIABILITIES				
Debenture balance.....		11,967.51		50,500.00
Accounts payable.....	104,508.66	612.67	399.21	110,080.68
Bank overdraft.....		182.60		
Other liabilities.....	22,107.64	21,774.75		128,052.15
Total liabilities.....	126,616.30	34,537.53	399.21	288,632.83
RESERVES				
For equity in H-E.P.C. systems.....	312,612.87	70,627.84	5,195.22	2,247,892.21
For depreciation.....	487,128.80	35,215.00	4,716.11	551,390.22
Other reserves.....	232,784.31	388.66	200.00	6,780.20
Total reserves.....	1,032,525.98	106,231.50	10,111.33	2,806,062.63
SURPLUS				
Debentures paid.....	311,900.00	21,532.49	5,765.89	686,650.00
Local sinking fund.....				
Operating surplus.....	1,169,654.22	53,029.55	2,296.78	1,231,882.67
Total surplus.....	1,481,554.22	74,562.04	8,062.67	1,918,532.67
Total liabilities, reserves and surplus.....	2,640,696.50	215,331.07	18,573.21	5,013,228.13
Percentage of net debt to total assets.....	5.4	12.2	3.0	6.4

“A”—Continued

Hydro Municipalities as at December 31, 1948

Lakefield	Lambeth	Lanark	Lancaster	LaSalle	Leamington	Lindsay
1,634	P.V.	737	554	1,400	6,524	8,497
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,137.97				1,210.68	36,105.25	20,436.39
27,474.93	12,999.51	11,989.25	8,824.84	36,689.62	7,804.41	3,176.56
12,435.98	4,342.87	7,258.79	2,227.75	12,068.13	78,655.29	136,932.63
9,926.94	4,093.10	4,119.45	2,428.58	8,710.16	31,335.02	21,087.50
2,845.96	1,053.80	1,358.88	650.65	1,807.17	42,659.13	58,450.38
4,376.05	300.71		14.95	2,683.82	43,991.77	55,681.51
3,445.25					3,736.16	15,590.73
63,643.08	22,789.99	24,726.37	14,146.77	63,169.58	14,478.49	
6,093.29	589.83	2,766.00	3,321.46	1,728.57	4,162.38	6,043.04
25,000.00			1,500.00			
190.14	20.59		59.56	1,246.27		
1,384.63				21.44		
24,109.22	16,343.65	10,861.01	9,689.38	25,251.58	12,492.95	11,596.57
				16.30	160,883.15	190,372.24
120,420.36	39,744.06	38,353.38	28,717.17	91,433.74	0.29	
4,670.56						
	749.93	216.39	214.78	16,344.81		
554.53	130.00	120.00	112.86	996.32	2,330.37	3.80
5,225.09	879.93	336.39	327.64	17,341.13	30.95	
24,109.22	16,343.65	10,861.01	9,689.38	25,251.58	18,145.49	6,493.77
20,860.01	6,621.22	2,092.25	4,669.91	13,740.69	20,506.81	6,497.57
	16.85			164.06		
44,969.23	22,981.72	12,953.26	14,359.29	39,156.33	160,883.15	190,372.24
28,829.44	4,000.00	7,316.57	8,916.82	15,500.00	59,359.90	66,584.88
41,396.60	11,882.41	17,747.16	5,113.42	19,436.28	130.26	
70,226.04	15,882.41	25,063.73	14,030.24	34,936.28		
120,420.36	39,744.06	38,353.38	28,717.17	91,433.74	220,373.31	256,957.12
5.4	3.8	1.2	1.7	26.2	48,000.00	129,313.04
					159,154.41	148,907.72
					207,154.41	278,220.76
					448,034.53	541,675.45
					1.6	1.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Listowel	London	London Twp. V.A.	Long Branch 6,286	Lucan
Population.....	3,095	87,319			715
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,459.49	501,362.01			375.45
Substation equipment.....		1,168,199.21			
Distribution system—overhead.....	60,540.83	916,838.71	28,934.14	76,510.35	15,615.01
Distribution system—underground.....	6,991.08	622,969.11			
Line transformers.....	32,009.53	589,286.97	12,722.04	35,234.51	8,120.18
Meters.....	23,545.85	468,885.28	9,171.57	34,239.98	5,740.21
Street light equipment, regular.....	5,297.46	91,809.15	1,999.16	17,823.44	4,805.18
Street light equipment, ornamental.....	1,539.79	92,286.12			
Miscellaneous construction expense.....	1,665.41	258,914.72	1,140.91	37.15	2,592.55
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	133,049.44	4,710,551.28	53,967.82	163,845.43	37,248.58
Bank and cash balance.....	1,527.58	16,826.54	4,096.33	1,372.07	648.55
Securities and investments.....	13,000.00	1,256,500.00	6,000.00	40,000.00	5,500.00
Accounts receivable.....	697.29	143,116.51	304.36	24,071.00	302.16
Inventories.....	130.32	232,521.25			
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	136,702.81	4,047,198.84	38,822.19	60,080.67	29,263.73
Other assets.....	118.77	172,223.00			
Total assets.....	285,226.21	10,578,937.42	103,190.70	289,369.17	72,963.02
LIABILITIES					
Debenture balance.....					
Accounts payable.....	107.55	147,941.50	494.36		3,986.67
Bank overdraft.....		148,881.66			
Other liabilities.....	2,344.64	105,908.11	409.00	3,372.07	607.00
Total liabilities.....	2,452.19	402,731.27	903.36	3,372.07	4,593.67
RESERVES					
For equity in H-E.P.C. systems.....	136,702.81	4,047,198.84	38,822.19	60,080.67	29,263.73
For depreciation.....	65,536.81	1,997,637.55	17,255.17	35,197.32	9,596.48
Other reserves.....		182,379.37	3.82	140.79	
Total reserves.....	202,239.62	6,227,215.76	56,081.18	95,418.78	38,860.21
SURPLUS					
Debentures paid.....	43,189.89	1,723,349.37	19,000.00	40,304.60	11,213.62
Local sinking fund.....					
Operating surplus.....	37,344.51	2,225,641.02	27,206.16	150,273.72	18,295.52
Total surplus.....	80,534.40	3,948,990.39	46,206.16	190,578.32	29,509.14
Total liabilities, reserves and surplus.....	285,226.21	10,578,937.42	103,190.70	289,369.17	72,963.02
Percentage of net debt to total assets.....	0.6	4.8	1.4	1.5	10.5

“A”—Continued

Hydro Municipalities as at December 31, 1948

Lucknow 951	Lynden P.V.	Madoc 1,138	Markdale 830	Markham 1,283	Marmora 1,093	Martintown P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
21,844.85	6,207.89	22,473.04	13,132.49	24,980.51	14,729.71	2,932.57
12,460.71	4,277.40	7,573.95	10,342.37	18,374.65	5,345.86	1,593.81
7,503.81	3,037.90	7,348.46	6,492.23	10,267.38	4,918.32	1,451.14
3,492.45	636.01	1,577.14	1,420.14	1,160.91	1,193.23	585.67
1,341.88	193.57	217.75		1,506.79	266.94	36.94
46,643.70	14,593.95	39,290.34	32,168.03	56,290.24	26,454.06	6,726.28
11,263.10	1,396.37	1,361.15	377.18	3,589.52	2,744.56	1,485.78
16,000.00	4,000.00	6,000.00	10,155.13	16,000.00	8,000.00	2,500.00
589.21	64.62	301.75	103.66	252.16	975.27	292.85
					295.93	
35,885.27	20,306.91	14,966.87	17,553.68	33,906.03	10,384.44	3,611.21
110,381.28	40,361.85	61,920.11	60,357.68	110,037.95	48,854.26	14,616.12
469.85	88.32	1,943.93	82.88			
	18.32	462.84	668.75	170.00	255.00	5.00
469.85	106.64	2,406.77	751.63	170.00	255.00	5.00
35,885.27	20,306.91	14,966.87	17,553.68	33,906.03	10,384.44	3,611.21
7,860.71	5,758.07	1,596.57	9,517.54	10,480.83	7,075.78	2,073.21
500.00				32.39		81.02
44,245.98	26,064.98	16,563.44	27,071.22	44,419.25	17,460.22	5,765.44
17,614.08	4,495.00	14,000.00	6,370.29	11,373.63	15,091.58	5,346.73
48,051.37	9,695.23	28,949.90	26,164.54	54,075.07	16,047.46	3,498.95
65,665.45	14,190.23	42,949.90	32,534.83	65,448.70	31,139.04	8,845.68
110,381.28	40,361.85	61,920.11	60,357.68	110,037.95	48,854.26	14,616.12
0.6	0.5	5.1	1.7	0.2	0.7	0.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Maxville	Meaford	Merlin	Merritton	Midland
Population.....	815	2,858	P.V.	3,716	6,887
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	.....	1,144.18	16,928.14	13,970.91	20,061.07
Substation equipment.....	407.79	4,093.47	.....	84,395.94	89,506.42
Distribution system—overhead....	12,386.17	43,223.36	10,776.77	58,911.53	108,306.50
Distribution system—underground.	.....	.....	.....	.....	.....
Line transformers.....	2,871.04	19,081.05	4,321.91	24,537.61	37,388.97
Meters.....	3,880.29	18,488.51	3,839.07	22,997.88	52,557.13
Street light equipment, regular....	2,096.79	4,194.16	1,051.48	7,864.11	19,322.71
Street light equipment, ornamental	.....	.....	.....	.....	.....
Miscellaneous construction expense	20.89	2,161.40	576.82	3,026.10	979.07
Steam or hydraulic plant.....	.....	.....	.....	.....	.....
Old plant.....	.....	.....	.....	.....	.....
Total plant.....	21,662.97	92,386.13	37,494.19	215,704.08	328,121.87
Bank and cash balance.....	1,479.05	1,348.71	882.44	5,829.51	13,796.92
Securities and investments.....	9,100.00	35,000.00	1,200.00	117,000.00	166,000.00
Accounts receivable.....	485.31	126.49	959.68	271.00	9,693.63
Inventories.....	.....	47.04	408.06	3,133.56	11,950.99
Sinking fund on local debentures	.....	.....	.....	.....	.....
Equity in H-E.P.C. systems.....	15,673.40	55,801.04	18,219.70	360,278.34	366,505.82
Other assets.....	.....	821.59	.....	56.66	396.32
Total assets.....	48,400.73	185,531.00	59,164.07	702,273.15	896,465.55
LIABILITIES	.....	.....	.....	.....	.....
Debenture balance.....	.....	21.85	3,655.40	.....	330.84
Accounts payable.....	.....	.....	.....	.....	.....
Bank overdraft.....	.....	.....	.....	.....	.....
Other liabilities.....	134.89	1,107.33	110.00	1,033.31	1,741.24
Total liabilities.....	134.89	1,129.18	3,765.40	1,033.31	2,072.08
RESERVES	.....	.....	.....	.....	.....
For equity in H-E.P.C. systems....	15,673.40	55,801.04	18,219.70	360,278.34	366,505.82
For depreciation.....	8,601.61	23,884.36	6,836.00	50,184.41	250,649.08
Other reserves.....	347.76	46.65	23.40	.....	1,298.25
Total reserves.....	24,622.77	79,732.05	25,079.10	410,462.75	618,453.15
SURPLUS	.....	.....	.....	.....	.....
Debentures paid.....	13,642.40	47,724.76	13,122.36	32,186.21	111,944.99
Local sinking fund.....	.....	.....	.....	.....	.....
Operating surplus.....	10,000.67	56,945.01	17,197.21	258,590.88	163,995.33
Total surplus.....	23,643.07	104,669.77	30,319.57	290,777.09	275,940.32
Total liabilities, reserves and surplus.	48,400.73	185,531.00	59,164.07	702,273.15	896,465.55
Percentage of net debt to total assets	0.4	0.9	9.2	0.3	0.4

“A”—Continued

Hydro Municipalities as at December 31, 1948

Mildmay 743	Millbrook 727	Milton 2,218	Milverton 1,027	Mimico 9,894	Mitchell 1,863	Moorefield P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	16,568.60	761.88	72,768.28	20,202.44	.....
.....	.....	39,630.88	.....	65,588.05	17,983.42	.....
9,506.68	8,387.01	32,000.12	16,233.13	96,396.87	34,888.34	4,558.94
.....
13,450.92	3,407.87	21,303.37	14,332.65	51,481.26	22,896.16	3,003.69
4,348.68	3,002.53	20,114.30	7,398.73	43,590.84	18,130.36	2,001.18
638.24	1,664.34	6,003.86	848.75	11,730.96	7,670.42	295.88
.....
987.72	.....	4,899.46	1,412.24	5,634.18	5,545.94	.....
.....	.....	.....	.....	.....	1,380.00	.....
849.00	.....	.....	.....	.....	.....	.....
.....
29,781.24	16,461.75	140,520.59	40,987.38	347,190.44	128,697.08	9,859.69
.....
514.60	6,370.73	1,508.31	.....	3,751.94	70.00	2,202.85
3,500.00	4,000.00	18,000.00	4,000.00	25,000.00	21,350.00	500.00
.....	58.51	683.50	476.62	1,028.99	6,037.41	108.93
.....	.....	6,035.66	.....	2,176.97	9,638.49	.....
.....
7,578.82	2,977.02	163,837.22	66,630.06	239,078.26	74,905.74	10,346.83
.....	.....	2.28	5.00	1,159.01	406.14	.....
.....
41,374.66	29,868.01	330,587.56	112,099.06	619,385.61	241,104.86	23,018.30
.....
3,880.23	.....	.....	.....	.....	.....	.....
44.80	20.44	.....	1,938.42	4,154.24	319.80	31.99
.....	.....	.....	797.70	.....	1,825.59	.....
788.43	144.04	624.13	.....	5,194.00	351.00	18.00
.....
4,713.46	164.48	624.13	2,736.12	9,348.24	2,496.39	49.99
.....
7,578.82	2,977.02	163,837.22	66,630.06	239,078.26	74,905.74	10,346.83
2,912.24	1,145.71	36,625.07	8,983.05	109,115.62	48,039.04	3,415.90
.....	.....	161.95	.....	554.07	1,269.95	.....
.....
10,491.06	4,122.73	200,624.24	75,613.11	348,747.95	124,214.73	13,762.73
.....
8,423.27	9,000.00	33,046.41	9,500.00	127,000.00	22,295.22	4,500.00
.....
17,746.87	16,580.80	96,292.78	24,249.83	134,289.42	92,098.52	4,705.58
.....
26,170.14	25,580.80	129,339.19	33,749.83	261,289.42	114,393.74	9,205.58
.....
41,374.66	29,868.01	330,587.56	112,099.06	619,385.61	241,104.86	23,018.30
.....
14.0	0.6	0.4	6.0	2.5	1.5	0.4

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Morris- burg 1,768	Mount Brydges P.V.	Mount Forest 1,807	Napanee	Neustadt
Population.....				3,512	447
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	5,682.38		3,726.00	24,141.33	
Substation equipment.....	4,499.48		686.75	2,358.27	
Distribution system—overhead....	15,566.26	9,572.57	24,015.34	58,830.38	11,736.30
Distribution system—underground.					
Line transformers.....	9,898.00	2,348.43	12,786.38	20,225.68	4,855.54
Meters.....	9,904.84	3,608.19	12,480.71	26,045.70	3,228.09
Street light equipment, regular....	6,293.60	1,440.46	2,397.89	5,885.16	559.94
Street light equipment, ornamental					
Miscellaneous construction expense	817.00	105.90	203.89	5,602.96	124.80
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	52,661.56	17,075.55	56,296.96	143,089.48	20,504.67
Bank and cash balance.....	2,096.74	3,383.92	5,854.25	100.00	5,243.95
Securities and investments.....	8,000.00	13,000.00	9,000.00	12,800.00	12,700.00
Accounts receivable.....	3,070.09	192.50	5,088.58	28,835.86	24.64
Inventories.....	344.85		107.78	12,993.89	
Sinking fund on local debentures.					
Equity in H-E.P.C. systems.....	7,320.59	12,616.04	57,105.79	78,007.66	9,669.00
Other assets.....					
Total assets.....	73,493.83	46,268.01	133,453.36	275,826.89	48,142.26
LIABILITIES					
Debtenture balance.....					
Accounts payable.....	2,664.67	259.64			441.30
Bank overdraft.....				25,390.77	
Other liabilities.....	2,145.09	130.10	210.00	1,495.74	155.72
Total liabilities.....	4,809.76	389.74	210.00	26,886.51	597.02
RESERVES					
For equity in H-E.P.C. systems....	7,320.59	12,616.04	57,105.79	78,007.66	9,669.00
For depreciation.....	4,109.00	7,233.88	26,919.17	23,689.63	11,274.94
Other reserves.....		97.38			
Total reserves.....	11,429.59	19,947.30	84,024.96	101,697.29	20,943.94
SURPLUS					
Debentures paid.....	31,636.00	4,220.00	25,351.63	70,000.00	15,504.12
Local sinking fund.....					
Operating surplus.....	25,618.48	21,710.97	23,866.77	77,243.09	11,097.18
Total surplus.....	57,254.48	25,930.97	49,218.40	147,243.09	26,601.30
Total liabilities, reserves and surplus.	73,493.83	46,268.01	133,453.36	275,826.89	48,142.26
Percentage of net debt to total assets	7.3	1.2	0.3	13.5	1.5

“A”—Continued

Hydro Municipalities as at December 31, 1948

Newbury 277	Newcastle 760	New Hamburg 1,530	Newmarket 4,264	New Toronto 8,729	Niagara Falls 21,304
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	107.37	4,203.21	4,000.00	59,361.69	131,410.66
.....	.....	1,319.80	5,000.00	.....	288,533.55
7,449.14	16,660.82	25,752.88	63,697.22	112,829.40	256,279.00
.....	.....	.....	.....	17,198.72	9,726.36
2,290.11	6,608.48	18,516.71	42,292.84	70,065.93	230,035.92
1,868.15	5,261.03	13,058.15	29,565.85	52,134.77	145,234.98
894.16	1,943.22	2,274.20	9,241.63	12,701.14	129,298.06
.....
.....	1,308.05	1,619.54	1,953.81	12,590.80	55,579.66
.....
.....
12,501.56	31,888.97	66,744.49	155,751.35	336,882.45	1,246,098.19
.....
1,352.93	2,167.11	132.55	2,875.00	26,881.36	18,866.10
6,500.00	9,000.00	11,000.00	.....	114,000.00	195,000.00
704.39	647.23	916.17	2,002.73	2,391.99	4,489.25
.....	.....	1,112.11	81.89	6,521.67	49,817.32
.....
7,016.87	6,099.56	79,532.10	13,206.31	811,692.55	909,906.32
.....	.....	1.48	.....	1.16	1,229.73
.....
28,075.75	49,802.87	159,438.90	173,917.28	1,298,371.18	2,425,406.91
.....
.....	.....	.....	2,000.00	.....	11,190.29
31.81	300.00	.....	344.46	10.65	27,098.09
.....
47.84	.....	157.92	390.00	6,857.55	22,906.93
.....
79.65	300.00	157.92	2,734.46	6,868.20	61,195.31
.....
7,016.87	6,099.56	79,532.10	13,206.31	811,692.55	909,906.32
6,811.66	12,419.59	19,780.10	42,541.67	98,278.57	397,718.34
.....	.....	33.83	.....	340.73	1,375.03
.....
13,828.53	18,519.15	99,346.03	55,747.98	910,311.85	1,308,999.69
.....
9,754.39	14,000.00	17,729.08	3,000.00	8,000.00	679,052.71
.....
4,413.18	16,983.72	42,205.87	112,434.84	373,191.13	376,159.20
.....
14,167.57	30,983.72	59,934.95	115,434.84	381,191.13	1,055,211.91
.....
28,075.75	49,802.87	159,438.90	173,917.28	1,298,371.18	2,425,406.91
.....
0.4	0.0	0.2	1.7	1.4	4.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Niagara-on-the-Lake 1,781	North York Twp. V.A.	Norwich 1,300	Norwood 840	Oil Springs 426
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	4,457.03	66,999.12	4,660.42	6,457.31	2,461.78
Substation equipment.....	24,212.17	92,074.14	457.53	25,026.40	16,249.03
Distribution system—overhead.....	46,993.52	770,589.11	11,926.99	6,630.37	9,523.14
Distribution system—underground.....	27,348.79	362,707.27	10,111.10	7,075.98	5,082.67
Line transformers.....	18,309.40	211,553.67	9,761.62	1,837.92	308.24
Meters.....	4,870.06	156.00	4,685.64	3,582.30	1,668.52
Street light equipment, regular.....		66,074.02		2,447.51	
Street light equipment, ornamental.....	4,933.82	44,775.43	1,857.68		
Miscellaneous construction expense.....					
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	131,124.79	1,614,928.76	43,003.45	47,058.01	41,750.69
Bank and cash balance.....	823.53	81,111.78	1,622.17	7,803.84	5,781.89
Securities and investments.....	5,000.00	10,000.00	12,300.00	20,500.00	8,500.00
Accounts receivable.....	2,337.64	34,181.27	1,634.12	1,748.65	18.08
Inventories.....	7,778.94	71,085.40	5,001.03		442.54
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	55,544.21	383,871.94	58,552.94	10,891.14	37,828.28
Other assets.....					
Total assets.....	202,609.11	2,195,179.15	122,113.71	88,001.64	94,321.48
LIABILITIES					
Debenture balance.....	8,786.25	283,289.20		4,418.71	
Accounts payable.....	2,299.37	268,760.55		136.09	29.27
Bank overdraft.....					
Other liabilities.....	524.30	85,675.60	405.00	543.78	38.22
Total liabilities.....	11,609.92	637,725.35	405.00	5,098.58	67.49
RESERVES					
For equity in H-E.P.C. systems.....	55,544.21	383,871.94	58,552.94	10,891.14	37,828.28
For depreciation.....	27,443.25	306,018.74	12,786.78	19,677.26	15,950.45
Other reserves.....	689.11	1,230.32	479.69		85.23
Total reserves.....	83,676.57	691,121.00	71,819.41	30,568.40	53,863.96
SURPLUS					
Debentures paid.....	39,715.17	494,732.67	13,756.00	32,681.29	16,721.31
Local sinking fund.....	67,607.45	371,600.13	36,133.30	19,653.37	23,668.72
Operating surplus.....					
Total surplus.....	107,322.62	866,332.80	49,889.30	52,334.66	40,390.03
Total liabilities, reserves and surplus.....	202,609.11	2,195,179.15	122,113.71	88,001.64	94,321.48
Percentage of net debt to total assets.....	7.9	32.8	0.6	6.6	0.1

“A”—Continued

Hydro Municipalities as at December 31, 1948

Omemee 608	Orangeville 2,840	Orono P.V.	Oshawa 27,924	Ottawa 164,266	Otterville P.V.
\$ c. 200.00 360.32 19,796.47 8,790.24 4,303.85 1,761.26 1,405.00 36,617.14 61.77 8,000.00 244.96 4,585.31 49,509.18 2,709.44 213.00 2,922.44 4,585.31 14,448.74 19,034.05 12,000.00 15,552.69 27,552.69 49,509.18 6.5	\$ c. 2,585.07 42,709.51 20,428.31 17,852.28 19,218.84 1,106.24 103,900.25 9,127.92 14,800.00 880.14 77,427.77 152.53 206,288.61 913.00 913.00 77,427.77 32,550.88 109,978.65 25,594.32 69,802.64 95,396.96 206,288.61 0.7	\$ c. 8,788.35 6,563.45 2,923.65 1,317.43 648.42 20,241.30 1,561.76 5,000.00 18.52 2,954.21 29,775.79 4,075.97 8,000.00 17,699.82 25,699.82 29,775.79 0.0	\$ c. 74,005.92 67,337.38 359,742.36 156,741.75 146,528.73 162,511.12 76,708.67 27,023.53 1,070,599.46 77,892.45 285,000.00 117,729.82 94,004.14 998,977.22 540.12 67,855.97 30,082.25 97,938.22 998,977.22 146,485.71 75,541.27 1,221,004.20 302,622.40 1,023,178.39 1,325,800.79 2,644,743.21 5.9	\$ c. 603,754.75 1,560,290.95 1,035,941.39 330,739.03 493,556.74 351,077.65 175,873.06 37,411.08 4,588,644.65 273,372.48 1,140,000.00 89,794.38 70,480.12 246,700.77 488,370.95 67,528.50 75,494.33 143,022.83 488,370.95 2,278,393.42 759,322.48 3,526,086.85 912,471.50 246,700.77 2,069,081.40 3,228,253.67 6,897,363.35 1.2	\$ c. 9,803.51 7,349.33 4,420.66 1,802.10 511.90 23,887.50 1,100.82 6,500.00 1,100.86 14,618.26 47,207.44 81.38 81.38 14,618.26 9,625.81 24,244.07 4,500.00 18,381.99 22,881.99 47,207.44 0.2

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Owen Sound 15,782	Paisley 730	Palmerston 1,497	Paris 5,035	Parkhill 970
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	33,806.84			13,570.15	
Substation equipment.....	39,457.82	1,923.46	1,346.28	50,295.21	
Distribution system—overhead.....	173,966.96	15,716.98	35,996.80	70,231.47	23,103.73
Distribution system—underground.....					
Line transformers.....	84,248.44	6,927.27	16,088.58	44,087.09	12,781.91
Meters.....	93,095.15	4,728.52	11,656.36	26,218.04	6,844.31
Street light equipment, regular.....	36,499.00	1,114.63	9,482.59	15,099.58	8,223.66
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	15,820.50	112.99	898.28	865.75	2,392.33
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	476,894.71	30,523.85	75,468.89	220,367.29	53,345.94
Bank and cash balance.....		2,621.35	6,360.15	1,212.09	141.92
Securities and investments.....	7,500.00	4,500.00	15,600.00	32,500.00	
Accounts receivable.....	8,690.19	103.55	284.07	526.80	324.04
Inventories.....	41,789.30		4,328.70		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	392,983.14	18,379.09	71,821.52	185,353.02	32,062.13
Other assets.....			18.15	370.06	
Total assets.....	927,857.34	56,127.84	173,881.48	440,329.26	85,874.03
LIABILITIES					
Debenture balance.....					
Accounts payable.....	5,906.59	73.50	105.62	470.33	3,461.77
Bank overdraft.....	3,388.90				
Other liabilities.....	10,879.32	57.42	413.74		126.32
Total liabilities.....	20,174.81	130.92	519.36	470.33	3,588.09
RESERVES					
For equity in H-E.P.C. systems.....	392,983.14	18,379.09	71,821.52	185,353.02	32,062.13
For depreciation.....	114,911.56	8,271.09	23,849.79	88,677.48	10,403.61
Other reserves.....	1,078.75		319.84	86.98	
Total reserves.....	508,973.45	26,650.18	95,991.15	274,117.48	42,465.74
SURPLUS					
Debentures paid.....	107,718.00	13,623.35	27,000.00	92,000.00	14,630.02
Local sinking fund.....					
Operating surplus.....	290,991.08	15,723.39	50,370.97	73,741.45	25,190.18
Total surplus.....	398,709.08	29,346.74	77,370.97	165,741.45	39,820.20
Total liabilities, reserves and surplus.....	927,857.34	56,127.84	173,881.48	440,329.26	85,874.03
Percentage of net debt to total assets.....	3.7	0.3	0.5	0.1	6.7

“A”—Continued

Hydro Municipalities as at December 31, 1948

Parry Sound 4,556	Penetan- guishene 4,594	Perth 4,475	Peter- borough 33,796	Petrolia 2,931	Picton 3,471	Plattsville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
25,000.00	2,288.05	5,109.34	142,604.56	38,213.70	11,469.73	
37,192.44	7,161.13	6,961.44	209,990.33	5,971.75	24,188.21	
	61,229.41	59,012.87	505,059.95	60,513.41	52,485.63	5,536.36
18,925.33	29,458.48	41,022.50	238,547.48	42,878.14	26,291.17	4,093.52
27,147.75	24,609.05	29,743.03	189,674.80	20,492.40	27,062.45	3,064.50
18,002.00	7,436.27	5,774.35	80,045.74	7,190.28	11,081.37	171.79
3,231.12	1,231.40	10,951.02	18,999.88	11,662.79	3,359.30	17.82
359,000.00		23,354.70				
488,498.64	133,413.79	181,929.25	1,384,922.74	186,922.47	155,937.86	12,883.99
821.32	9,480.73	13,442.70	23,257.29	1,578.79	10,100.61	1,792.47
20,000.00	40,000.00	90,500.00	195,000.00	15,000.00	21,500.00	9,500.00
2,163.08	1,183.34	6,398.25	56,677.10	3,497.58	1,838.66	116.05
	133.80	23,151.92	50,089.83	8,815.93	9,877.49	
27,100.00	105,092.01	121,324.04	620,442.49	162,349.13	96,770.33	15,845.34
		336.41	2.90			
538,583.04	289,303.67	436,746.16	2,330,725.86	378,166.80	296,024.95	40,137.85
31,542.53		11,534.97	18,000.00			
722.05	113.87	556.79	46,669.70	433.33	1,663.87	
7,213.99	1,012.50	3,456.29	521.06	1,291.12	5,069.93	
39,478.57	1,126.37	15,548.05	65,190.76	1,724.45	6,733.80	
103,813.88	105,092.01	121,324.04	620,442.49	162,349.13	96,770.33	15,845.34
68.66	60,361.00	80,021.86	351,838.82	55,052.10	34,033.28	4,928.52
	888.55	5,518.06	1,205.48	116.98	968.91	
103,882.54	166,341.56	206,863.96	973,486.79	217,518.21	131,772.52	20,773.86
356,957.47	36,982.95	96,865.03	482,610.67	50,000.00	3,182.32	5,237.00
38,264.46	84,852.79	117,469.12	809,437.64	108,924.14	154,336.31	14,126.99
395,221.93	121,835.74	214,334.15	1,292,048.31	158,924.14	157,518.63	19,363.99
538,583.04	289,303.67	436,746.16	2,330,725.86	378,166.80	296,024.95	40,137.85
7.3	0.6	5.0	3.8	0.8	3.3	0.0

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Point Edward 1,537	Port Colborne 7,578	Port Credit 2,425	Port Dalhousie 1,750	Port Dover 2,029
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		30,326.10	675.00		248.75
Substation equipment.....					
Distribution system—overhead.....	30,582.04	95,471.87	57,034.30	35,858.11	49,954.21
Distribution system—underground.....					
Line transformers.....	12,345.01	43,967.30	23,393.09	24,850.23	26,963.47
Meters.....	8,734.17	34,359.24	19,458.45	16,590.14	18,223.56
Street light equipment, regular.....	5,214.94	6,264.49	5,613.40	2,426.63	3,803.55
Street light equipment, ornamental.....		16,611.59			
Miscellaneous construction expense.....	2,825.61	12,057.56	5,339.84	1,291.33	1,660.80
Steam or hydraulic plant.....					
Old plant.....		9,929.60		6,018.38	
Total plant.....	59,701.77	248,987.75	111,514.08	87,034.82	100,854.34
Bank and cash balance.....	6,202.48	65.00	9,716.23	65.00	827.35
Securities and investments.....	21,000.00	115,000.00	1,000.00		
Accounts receivable.....	2,180.52	294.60	1,704.21	3,199.71	2,797.10
Inventories.....	3,121.06	1,216.24	842.33	1,425.00	74.28
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	113,336.96	167,852.26	71,772.32	65,481.21	46,291.27
Other assets.....		71.13			20.02
Total assets.....	205,542.79	533,486.98	196,549.17	157,205.74	150,864.36
LIABILITIES					
Debenture balance.....		3,730.29	10,000.00		
Accounts payable.....	1,150.50	1,355.44	4,665.74	1,175.52	513.52
Bank overdraft.....		669.63		1,713.79	
Other liabilities.....	377.30	20,839.25	1,314.07	1,480.67	859.00
Total liabilities.....	1,527.80	26,594.61	15,979.81	4,369.98	1,372.52
RESERVES					
For equity in H-E.P.C. systems.....	113,336.96	167,852.26	71,772.32	65,481.21	46,291.27
For depreciation.....	19,876.95	63,067.65	27,318.84	9,609.29	26,612.85
Other reserves.....	60.14	242.52	190.59	214.16	
Total reserves.....	133,274.05	231,162.43	99,281.75	75,304.66	72,904.12
SURPLUS					
Debentures paid.....	17,000.00	142,269.71	14,500.00	22,500.00	29,000.00
Local sinking fund.....					
Operating surplus.....	53,740.94	133,460.23	66,787.61	55,031.10	47,587.72
Total surplus.....	70,740.94	275,729.94	81,287.61	77,531.10	76,587.72
Total liabilities, reserves and surplus.....	205,542.79	533,486.98	196,549.17	157,205.74	150,864.36
Percentage of net debt to total assets.....	1.7	2.9	12.8	4.8	1.3

“A”—Continued

Hydro Municipalities as at December 31, 1948

Port Elgin	Port Hope	Port McNicoll	Port Perry	Port Rowan	Port Stanley
1,450	5,104	890	1,407	700	930
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
111.25	12,689.21	369.08			1,574.60
	3,435.00		2,564.65		
32,087.53	79,225.39	14,281.62	26,571.17	14,206.56	35,871.30
13,326.59	44,750.37	3,404.20	7,770.77	6,182.54	24,024.04
12,654.15	44,573.02	4,914.38	7,499.44	3,983.28	18,873.38
3,347.92	5,904.87	696.26	1,942.03	1,164.93	2,738.15
4,751.80	7,572.96	587.83	235.61	139.04	6,106.38
4,213.00					
70,492.24	198,150.82	24,253.37	46,583.67	25,676.35	89,187.85
1,852.51	4,655.35		7,712.95	1,330.77	50.00
7,500.00	29,000.00	1,000.00	11,000.00	2,000.00	13,000.00
186.16	530.68	276.62	118.80	10.00	876.59
	10,399.87	24.50		316.00	
27,304.35	117,855.66	10,434.67	30,992.49	11,952.27	68,816.48
			1,274.40		116.42
107,335.26	360,592.38	35,989.16	97,682.31	41,285.39	172,047.34
6,266.13					
4,315.84			1,302.68	456.71	397.40
		1,661.18			346.26
	10,537.04	238.40	584.00	265.00	213.00
10,581.97	10,537.04	1,899.58	1,886.68	721.71	956.66
27,304.35	117,855.66	10,434.67	30,992.49	11,952.27	68,816.48
12,030.65	47,521.80	6,298.67	13,578.91	6,137.84	23,694.51
					40.16
39,335.00	165,377.46	16,733.34	44,571.40	18,090.11	92,551.15
35,733.87	78,630.64	7,300.00	19,881.66	11,000.00	18,950.00
21,684.42	106,047.24	10,056.24	31,342.57	11,473.57	59,589.53
57,418.29	184,677.88	17,356.24	51,224.23	22,473.57	78,539.53
107,335.26	360,592.38	35,989.16	97,682.31	41,285.39	172,047.34
13.2	4.3	7.4	2.8	2.5	0.9

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Prescott	Preston	Priceville	Princeton	Queenston
Population.....	3,252	7,230	P.V.	P.V.	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,761.54		68.00		
Substation equipment.....		57,591.27			
Distribution system—overhead....	45,394.75	102,706.69	6,127.61	5,027.61	9,203.18
Distribution system—underground..					
Line transformers.....	26,664.43	79,810.09	2,303.23	4,237.21	4,181.75
Meters.....	23,844.42	52,433.63	845.24	2,138.07	2,122.94
Street light equipment, regular....	2,302.03	8,482.21	317.88	525.42	498.05
Street light equipment, ornamental					
Miscellaneous construction expense	2,321.41	10,643.49		5.34	2,416.49
Steam or hydraulic plant.....					
Old plant.....		32,126.75			
Total plant.....	103,288.58	343,794.13	9,661.96	11,933.65	18,422.41
Bank and cash balance.....	13,042.55	125.00	756.15	3,025.64	2,901.39
Securities and investments.....	17,000.00	43,000.00	1,000.00	7,000.00	7,500.00
Accounts receivable.....	1,054.11	4,580.38	42.00	56.08	81.83
Inventories.....		14,082.39			
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	87,487.17	418,846.43	1,573.41	16,266.21	11,403.39
Other assets.....					
Total assets.....	221,872.41	824,428.33	13,033.52	38,281.58	40,309.02
LIABILITIES					
Debenture balance.....		2,984.08			114.52
Accounts payable.....	3,686.40	994.30	128.22		87.03
Bank overdraft.....		11,025.51			
Other liabilities.....	582.40	2,149.75			50.00
Total liabilities.....	4,268.80	17,153.64	128.22		251.55
RESERVES					
For equity in H-E.P.C. systems....	87,487.17	418,846.43	1,573.41	16,266.21	11,403.39
For depreciation.....	66,125.96	163,063.53	3,773.11	4,019.78	6,727.78
Other reserves.....		427.76			
Total reserves.....	153,613.13	582,337.72	5,346.52	20,285.99	18,131.17
SURPLUS					
Debentures paid.....	12,170.99	149,815.92	6,166.10	3,550.00	9,385.48
Local sinking fund.....					
Operating surplus.....	51,819.49	75,121.05	1,392.68	14,445.59	12,540.82
Total surplus.....	63,990.48	224,936.97	7,558.78	17,995.59	21,926.30
Total liabilities, reserves and surplus.	221,872.41	824,428.33	13,033.52	38,281.58	40,309.02
Percentage of net debt to total assets	3.2	4.2	1.1	0.0	0.9

“A”—Continued

Hydro Municipalities as at December 31, 1948

Renfrew	Richmond	Richmond	Ridgetown	Ripley	Riverside	Rockwood
6,074	494	Hill 1,677	2,113	429	6,772	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,393.89			4,124.83		12,861.37	79.00
34,619.88		600.00	1,024.24			
56,067.73	7,408.38	19,012.09	32,004.05	11,417.70	103,332.77	10,910.62
41,058.00	3,525.33	17,459.89	15,206.07	6,498.37	36,489.79	4,073.65
36,776.40	2,305.26	10,773.87	13,082.18	2,956.23	40,107.11	4,658.13
33,260.64	227.89	2,987.36	7,177.18	975.93		776.41
			1,431.73		19,163.24	
4,928.31	612.67		2,071.06	1,227.45	30,308.75	348.79
496,616.67						
712,721.52	14,079.53	50,833.21	76,121.34	23,075.68	242,263.03	20,846.60
6,415.22	188.10	2,333.18	1,115.07	137.54	100.00	2,459.74
14,470.04	137.43	8,500.00	16,000.00		20,000.00	3,600.00
3,573.57		539.78	335.10	5.78	4,593.80	
			934.53		9,168.16	98.50
4,194.20	5,874.12	36,699.71	69,921.13	13,855.68	136,818.60	18,090.48
						52.50
741,374.55	20,279.18	98,905.88	164,427.17	37,074.68	412,943.59	45,147.82
53,669.22				969.86		546.30
3,097.99	1,573.92		2,029.94		6,443.14	
					7,862.65	
	109.87	487.24	2,296.73	184.83	21,240.82	188.72
56,767.21	1,683.79	487.24	4,326.67	1,154.69	35,546.61	735.02
4,194.20	5,874.12	36,699.71	69,921.13	13,855.68	136,818.60	18,090.48
124,048.27	2,935.59	6,439.22	24,026.48	5,028.55	62,981.36	9,700.57
3,270.67		69.37	11,213.45		1,521.74	
131,513.14	8,809.71	43,208.30	105,161.06	18,884.23	201,321.70	27,791.05
457,567.51	6,500.00	12,200.00	19,455.99	13,002.08	82,500.00	3,953.70
95,526.69	3,285.68	43,010.34	35,483.45	4,033.68	93,575.28	12,668.05
553,094.20	9,785.68	55,210.34	54,939.44	17,035.76	176,075.28	16,621.75
741,374.55	20,279.18	98,905.88	164,427.17	37,074.68	412,943.59	45,147.82
7.7	11.7	0.8	4.7	4.9	6.4	2.7

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Rodney	Rosseau	Russell	St. Catharines	St. Clair Beach
Population.....	850	210	P.V.	35,436	351
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				31,162.35	
Substation equipment.....				202,604.20	
Distribution system—overhead....	13,240.43	7,982.70	8,711.55	354,461.99	12,088.26
Distribution system—underground..					
Line transformers.....	6,589.46	2,405.53	2,070.00	264,348.54	4,166.31
Meters.....	6,212.47	1,317.86	2,694.92	191,556.91	3,248.10
Street light equipment, regular....	3,564.22	623.60	644.70	28,711.59	1,396.33
Street light equipment, ornamental..				29,486.71	
Miscellaneous construction expense	767.31	1,067.16	17.37	10,966.66	38.00
Steam or hydraulic plant.....					
Old plant.....				8,676.35	
Total plant.....	30,373.89	13,396.85	14,138.54	1,121,975.30	20,937.00
Bank and cash balance.....	2,955.87	1,694.29	5,565.96	74,331.19	441.41
Securities and investments.....	5,200.00	2,500.00	6,000.00	463,000.00	3,500.00
Accounts receivable.....	50.17	84.14	957.31	52,636.77	256.73
Inventories.....				30,422.81	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	22,285.60	6,540.72	9,443.14	1,222,117.46	11,509.81
Other assets.....					
Total assets.....	60,865.53	24,216.00	36,104.95	2,964,483.53	36,644.95
LIABILITIES					
Debenture balance.....		4,774.09		8,750.00	
Accounts payable.....	141.31		453.13	110,683.21	107.34
Bank overdraft.....					
Other liabilities.....	315.00	20.00	15.00	45,793.81	110.00
Total liabilities.....	456.31	4,794.09	468.13	165,227.02	217.34
RESERVES					
For equity in H-E.P.C. systems....	22,285.60	6,540.72	9,443.14	1,222,117.46	11,509.81
For depreciation.....	8,067.02	4,183.90	4,842.05	363,598.31	7,259.42
Other reserves.....	73.15	68.74		3,153.80	34.74
Total reserves.....	30,425.77	10,793.36	14,285.19	1,588,869.57	18,803.97
SURPLUS					
Debentures paid.....	8,500.00	8,225.91	8,808.12	293,272.91	6,341.45
Local sinking fund.....					
Operating surplus.....	21,483.45	402.64	12,543.51	917,114.03	11,282.19
Total surplus.....	29,983.45	8,628.55	21,351.63	1,210,386.94	17,623.64
Total liabilities, reserves and surplus.	60,865.53	24,216.00	36,104.95	2,964,483.53	36,644.95
Percentage of net debt to total assets	1.2	27.1	1.8	7.9	0.8

“A”—Continued

Hydro Municipalities as at December 31, 1948

St. George P.V.	St. Jacobs P.V.	St. Marys 3,820	St. Thomas 18,808	Sarnia 22,842	Scarborough Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,283.18	8,863.83	19,184.78 33,367.84 79,431.87	79,143.04 169,613.42 155,108.68 97,540.68 101,721.17	149,822.60 241,776.87 269,182.38 110,240.57 136,987.59	22,971.77 18,893.71 538,495.91 210,478.77
8,037.20	7,124.82	48,524.02	92,563.35	122,952.40	150,803.88
4,491.29	4,771.11	32,459.03	25,161.92	33,343.44	38,811.84
1,948.53	474.65	7,218.11	3,693.04	8,271.83	
133.35	546.30	14,386.68	10,464.50	72,583.88	15,128.60
21,893.55	21,780.71	234,572.33	735,009.80	1,145,161.56	995,584.48
3,291.87	3,498.40	25.00	1,723.35	7,502.00	8,761.42
7,000.00	10,000.00		107,000.00	15,000.00	50,000.00
0.98	36.72	1,263.19	18,933.70	29,087.19	11,433.19
		8,304.46	27,379.64	60,420.42	
22,823.69	28,170.54	210,484.12 276.78	806,266.59 3,298.52	1,020,788.65 3,719.03	345,364.01 114.04
55,010.09	63,486.37	454,925.88	1,699,611.60	2,281,678.85	1,411,257.14
1,346.51	207.26	5,463.01 9,008.00 14,176.70 1,464.00		1,975.18 19,603.05 22,973.83	35,769.40 98,063.67
282.50			21,101.37		
1,629.01	207.26	30,111.71	21,101.37	44,552.06	133,833.07
22,823.69	28,170.54	210,484.12	806,266.59	1,020,788.65	345,364.01
3,487.50	6,268.29	87,507.20 710.58	282,114.73 408.15	304,245.40 4,526.00	234,750.38 580.05
26,311.19	34,438.83	298,701.90	1,088,789.47	1,329,560.05	580,694.44
6,000.00	6,000.00	108,797.37	138,944.07	338,000.00	290,568.27
21,069.89	22,840.28	17,314.90	450,776.69	569,566.74	406,161.36
27,069.89	28,840.28	126,112.27	589,720.76	907,566.74	696,729.63
55,010.09	63,486.37	454,925.88	1,699,611.60	2,281,678.85	1,411,257.14
5.1	0.6	12.3	2.0	3.0	12.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Seaforth	Shelburne	Simcoe	Smiths Falls
Population.....	1,898	1,158	6,829	8,155
ASSETS				
Lands and buildings.....	\$ 1,836.39	\$ 800.00	\$ 11,422.49	\$ 10,366.57
Substation equipment.....	8,930.07	566.60	42,577.90	8,174.42
Distribution system—overhead.....	32,584.73	19,066.39	77,314.93	113,133.43
Distribution system—underground.....			1,412.24	
Line transformers.....	22,075.99	14,299.71	70,354.51	58,463.67
Meters.....	15,384.20	9,802.82	48,901.73	48,776.02
Street light equipment, regular.....	5,789.27	8,737.78	23,723.17	21,477.00
Street light equipment, ornamental.....			1,037.04	
Miscellaneous construction expense.....	3,188.25	388.33	9,579.62	9,908.42
Steam or hydraulic plant.....				
Old plant.....			927.92	
Total plant.....	89,788.90	53,661.63	287,251.55	270,299.53
Bank and cash balance.....	20.00	1,495.80	5,362.80	673.37
Securities and investments.....	9,000.00	7,500.00	42,500.00	101,000.00
Accounts receivable.....	3,482.53	473.99	2,150.93	1,258.81
Inventories.....	1,223.61		20,735.97	10,580.26
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	99,440.64	31,697.83	193,853.26	178,792.51
Other assets.....				
Total assets.....	202,955.68	94,829.25	551,854.51	562,604.48
LIABILITIES				
Debenture balance.....	6,605.37		2,622.25	
Accounts payable.....	3,534.54		6,864.11	13,537.04
Bank overdraft.....	940.82			
Other liabilities.....	528.78	86.00	3,319.68	396.73
Total liabilities.....	11,609.51	86.00	12,806.04	13,933.77
RESERVES				
For equity in H-E.P.C. systems.....	99,440.64	31,697.83	193,853.26	178,792.51
For depreciation.....	22,274.18	21,902.12	68,159.95	116,215.11
Other reserves.....	172.23			233.82
Total reserves.....	121,887.05	53,599.95	262,013.21	295,241.44
SURPLUS				
Debentures paid.....	28,394.63	16,991.04	72,812.65	122,787.33
Local sinking fund.....				
Operating surplus.....	41,064.49	24,152.26	204,222.61	130,641.94
Total surplus.....	69,459.12	41,143.30	277,035.26	253,429.27
Total liabilities, reserves and surplus..	202,955.68	94,829.25	551,854.51	562,604.48
Percentage of net debt to total assets..	11.21	0.1	3.3	3.6

“A”—Continued

Hydro Municipalities as at December 31, 1948

Smithville P.V.	Southampton 1,713	Springfield 504	Stamford Twp. V.A.	Stayner 1,106	Stirling 1,061
\$ c.	\$ c. 25.00	\$ c.	\$ c. 33,010.98	\$ c.	\$ c. 8,522.88
12,125.53	33,387.73	11,308.24	58,824.30	200.00	8,034.64
			227,353.58	18,847.76	11,234.26
5,408.22	15,656.99	4,294.11	104,432.00	9,699.32	7,668.80
5,520.27	13,158.91	2,992.62	74,754.43	9,378.80	7,581.26
1,731.00	4,044.22	629.47	15,500.30	1,651.65	3,423.18
225.48	734.46	840.75	25,007.00		903.40
1,878.98			13,743.66		
26,889.48	67,007.31	20,065.19	552,626.25	39,777.53	47,368.42
4,209.78	1,103.08	2,600.39	16,414.71	4,070.14	8,552.09
12,500.00	7,500.00	5,500.00	6,000.00	11,000.00	12,500.00
9.91	590.01	42.86	17,776.08	340.56	737.84
206.22			25,205.49		1,139.23
4,375.77	25,914.51	14,181.69	169,220.95	28,302.18	16,299.02
			1,631.38		
49,191.16	102,114.91	42,390.13	788,874.86	83,490.41	86,596.60
1,976.58			103,738.62		
	407.87	139.21	1,246.11	251.87	
70.00	4.74		8,980.01	376.78	408.93
2,046.58	412.61	139.21	113,964.74	628.65	408.93
4,375.77	25,914.51	14,181.69	169,220.95	28,302.18	16,299.02
7,612.16	11,562.13	6,005.91	134,910.28	18,638.27	12,149.99
			3,781.94	38.90	
11,987.93	37,476.64	20,187.60	307,913.17	46,979.35	28,449.01
13,023.42	30,522.93	9,500.00	236,539.55	9,557.26	10,000.00
21,133.23	33,702.73	12,563.32	130,457.40	26,325.15	47,738.66
34,156.65	64,225.66	22,063.32	366,996.95	35,882.41	57,738.66
48,191.16	102,114.91	42,390.13	788,874.86	83,490.41	86,596.60
4.7	0.5	0.5	18.4	1.1	0.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Stoney Creek 1,268	Stouffville 1,438	Stratford 18,288	Strathroy 3,227
Population.....				
ASSETS	\$	\$	\$	\$
Lands and buildings.....	c.	c.	c.	c.
Substation equipment.....			141,455.78	9,373.61
Distribution system—overhead.....	26,276.07	19,269.20	187,027.58	30,899.80
Distribution system—underground.....			164,112.07	56,370.46
Line transformers.....	14,656.83	11,743.17	22,971.15	
Meters.....	12,654.32	8,554.37	126,365.55	36,853.05
Street light equipment, regular.....	1,337.82	2,238.19	109,845.44	22,269.16
Street light equipment, ornamental.....			26,653.96	6,369.40
Miscellaneous construction expense.....	924.64	1,050.01	32,945.73	2,884.66
Steam or hydraulic plant.....				
Old plant.....			31,520.00	
Total plant.....	55,849.68	42,854.94	842,897.26	165,020.14
Bank and cash balance.....	4,567.40	4,266.04	57,225.29	9,615.99
Securities and investments.....		6,000.00	333,000.00	32,000.00
Accounts receivable.....	3,980.12	52.63	20,679.07	6,232.42
Inventories.....			18,482.50	875.19
Sinking fund on local debentures.....			35,174.08	
Equity in H-E.P.C. systems.....	798.49	29,971.35	940,625.87	147,704.70
Other assets.....			397.77	
Total assets.....	65,195.69	83,144.96	2,248,481.84	361,448.44
LIABILITIES				
Debenture balance.....	40,000.00		50,000.00	4,365.26
Accounts payable.....	7,319.00		85.50	657.67
Bank overdraft.....				
Other liabilities.....	429.14	641.50	6,486.36	1,085.09
Total liabilities.....	47,748.14	641.50	56,571.86	6,108.02
RESERVES				
For equity in H-E.P.C. systems.....	798.49	29,971.35	940,625.87	147,704.70
For depreciation.....	2,184.00	5,438.90	466,117.82	59,946.72
Other reserves.....		50.96	3,665.55	144.87
Total reserves.....	2,982.49	35,461.21	1,410,409.24	207,796.29
SURPLUS				
Debentures paid.....		14,673.90	405,800.00	49,523.59
Local sinking fund.....			35,174.08	
Operating surplus.....	14,465.06	32,368.35	340,526.66	98,020.54
Total surplus.....	14,465.06	47,042.25	781,500.74	147,544.13
Total liabilities, reserves and surplus.....	65,195.69	83,144.96	2,248,481.84	361,448.44
Percentage of net debt to total assets.....	74.1	1.2	1.7	2.9

“A”—Continued

Hydro Municipalities as at December 31, 1948

Streetsville 822	Sunderland P.V.	Sutton 1,075	Swansea 7,313	Tara 511	Tavistock 1,075
\$ c. 9,449.17 1,172.04 12,501.78	\$ c. 6,458.62	\$ c. 26,539.78	\$ c. 5,577.66 132.18 99,216.60	\$ c. 15,319.14	\$ c. 3,783.53 15,996.27
11,792.65 6,047.22 1,619.31	3,491.15 3,298.94 670.57	14,559.93 10,825.68 2,358.82	67,025.41 43,852.88 18,741.19	5,348.97 2,879.56 2,825.90	10,259.26 8,059.62 1,203.55
1,242.32 10,641.55		1,571.70	27,262.38	200.18	1,030.82
54,466.04	13,919.28	55,855.91	261,808.30	26,573.75	40,333.05
73.93	3,641.08	3,318.86		518.36	15.00
129.45	165.34	5,000.00	40,000.00		11,500.00
	126.27	1,175.92	1,193.00	85.56	65.64
			1,443.15		2,637.45
8,077.38	16,130.51	29,869.91	160,796.14	14,262.96	74,314.54
			316.30		
62,746.80	33,982.48	95,220.60	465,556.89	41,440.63	128,865.68
2,097.00	3,577.59		37,533.30 12,205.04	208.90	285.55
250.65	15.00	25.00	2,733.48 5,190.59		1,424.31
2,347.65	3,592.59	25.00	57,662.41	208.90	1,709.86
8,077.38 5,211.55	16,130.51 5,656.05 59.25	29,869.91 13,408.60 145.84	160,796.14 73,882.86 232.52	14,262.96 4,268.53	74,314.54 15,948.00
13,288.93	21,845.81	43,424.35	234,911.52	18,531.49	90,262.54
17,545.08	4,627.78	25,325.00	65,133.66	14,263.64	6,000.00
29,565.14	3,916.30	26,446.25	107,849.30	8,436.60	30,893.28
47,110.22	8,544.08	51,771.25	172,982.96	22,700.24	36,893.28
62,746.80	33,982.48	95,220.60	465,556.89	41,440.63	128,865.68
4.3	20.1	0.0	18.9	0.8	3.1

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Tecumseh	Teeswater	Thamesford	Thamesville
Population.....	3,224	843	P.V.	749
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,232.16			681.69
Substation equipment.....		330.31		
Distribution system—overhead.....	48,958.06	18,257.17	10,433.42	18,825.38
Distribution system—underground.....				
Line transformers.....	16,942.25	8,405.97	4,618.42	8,603.43
Meters.....	20,002.13	5,606.10	4,102.17	5,925.29
Street light equipment, regular.....	112.40	4,290.18	612.03	3,010.82
Street light equipment, ornamental.....	4,760.95			
Miscellaneous construction expense.....	3,275.10		1,114.18	229.57
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	95,283.05	36,889.73	20,880.22	37,276.18
Bank and cash balance.....	2,117.58	874.51	438.21	1,265.98
Securities and investments.....	5,000.00	11,000.00	2,000.00	12,000.00
Accounts receivable.....	2,242.02	62.03	21.85	648.95
Inventories.....	541.30			
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	44,472.74	20,684.21	28,042.53	28,143.65
Other assets.....				
Total assets.....	149,656.69	69,510.48	51,382.81	79,334.76
LIABILITIES				
Debenture balance.....				
Accounts payable.....	710.86		321.51	490.44
Bank overdraft.....				
Other liabilities.....	5,408.91	54.00	99.00	576.00
Total liabilities.....	6,119.77	54.00	420.51	1,066.44
RESERVES				
For equity in H-E.P.C. systems.....	44,472.74	20,684.21	28,042.53	28,143.65
For depreciation.....	26,128.33	14,241.04	8,353.26	15,152.57
Other reserves.....	494.01			144.39
Total reserves.....	71,095.08	34,925.25	36,395.79	43,440.61
SURPLUS				
Debentures paid.....	26,000.00	21,296.14	5,358.03	11,187.80
Local sinking fund.....				
Operating surplus.....	46,441.84	13,235.09	9,208.48	23,639.91
Total surplus.....	72,441.84	34,531.23	14,566.51	34,827.71
Total liabilities, reserves and surplus.....	149,656.69	69,510.48	51,382.81	79,334.76
Percentage of net debt to total assets.....	1.3	0.1	1.8	2.1

“A”—Continued

Hydro Municipalities as at December 31, 1948

Thedford 579	Thornbury 801	Thorndale P.V.	Thornton P.V.	Thorold 5,989	Tilbury 2,165
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
12,331.98	4,404.73 12,525.16	5,375.64	7,184.12	11,495.62 2,572.33 56,919.91	11,987.47 28,117.60
8,121.14	9,395.44	2,945.85	1,908.95	36,348.84	25,675.17
3,901.04	6,569.12	2,424.39	1,404.12	33,076.24	13,305.22
1,703.10	1,275.08	222.51	433.25	3,835.65	17,498.00
1,846.32	49.79 36,000.00	148.95		4,917.81	214.95
27,903.58	70,219.32	11,117.34	10,930.44	149,166.40	96,798.41
3,722.01	260.80		1,027.55	3,519.21	
10,000.00		1,500.00	2,500.00	75,800.00	
230.33	42.40	450.26	19.26	693.10	449.59
		845.53		15,834.65	10.25
16,272.36	1,032.48 3.36	13,719.65	5,476.90	178,745.99	87,244.20 28.14
58,128.28	71,558.36	27,632.78	19,954.15	423,759.35	184,530.59
1,111.04	5,573.08 1,959.40	82.17		8,854.93	
99.39	20.00	402.38 465.57	50.00	2,710.50	3,551.76 1,022.25
1,210.43	7,552.48	950.12	50.00	11,565.43	4,574.01
16,272.36	1,032.48	13,719.65	5,476.90	178,745.99	87,244.20
7,564.77	2,793.97	4,550.30 41.37	7,721.40	46,357.31	25,742.72 148.60
23,837.13	3,826.45	18,311.32	13,198.30	225,103.30	113,135.52
16,500.00	50,426.92	3,086.48	7,199.65	5,000.00	14,000.00
16,580.72	9,752.51	5,284.86	†493.80	182,090.62	52,821.06
33,080.72	60,179.43	8,371.34	6,705.85	187,090.62	66,821.06
58,128.28	71,558.36	27,632.78	19,954.15	423,759.35	184,530.59
2.9	10.7	6.8	0.3	4.7	4.7

†Deficit.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Tillsonburg	Toronto*	Toronto Twp. V.A.	Tottenham
Population.....	4,707	695,302		550
ASSETS				
Lands and buildings.....	\$ c. 15,120.04	\$ c. 5,393,988.92	\$ c. 13,175.53	\$ c. 358.50
Substation equipment.....	21,899.54	15,435,953.34		10,711.04
Distribution system—overhead.....	65,902.68	7,552,202.59	304,884.28	
Distribution system—underground.....		4,338,667.01		
Line transformers.....	42,760.26	4,454,469.76	162,162.75	6,077.65
Meters.....	34,451.16	3,428,350.53	91,422.53	3,838.12
Street light equipment, regular.....	24,977.65	943,321.75	11,560.72	1,167.14
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	9,629.96	2,032,356.66	10,425.53	1,100.33
Steam or hydraulic plant.....				
Old plant.....			619.65	
Total plant.....	214,741.29	43,579,310.56	594,250.99	23,252.78
Bank and cash balance.....	1,468.33	911,204.09	39,673.25	791.16
Securities and investments.....	8,500.00	12,800,000.00	8,000.00	
Accounts receivable.....	2,107.25	1,809,562.28	15,659.00	16.78
Inventories.....	3,257.27	1,008,044.49	12,110.52	975.32
Sinking fund on local debentures.....		1,257,468.84		
Equity in H-E.P.C. systems.....	147,020.40	33,175,016.07	213,503.62	17,969.59
Other assets.....		129,276.07		
Total assets.....	377,094.54	94,669,882.40	883,197.38	43,005.63
LIABILITIES				
Debenture balance.....	6,905.67	2,420,000.00	52,745.94	10,000.00
Accounts payable.....	612.85	1,452,697.29	28,689.64	97.75
Bank overdraft.....	6,344.29			
Other liabilities.....	4,602.83	180,451.56	20,874.87	254.60
Total liabilities.....	18,465.64	4,053,148.85	102,310.45	10,352.35
RESERVES				
For equity in H-E.P.C. systems.....	147,020.40	33,175,016.07	213,503.62	17,969.59
For depreciation.....	48,329.64	16,931,494.80	196,319.69	3,223.60
Other reserves.....	195.20	1,148,570.81	209.76	
Total reserves.....	195,545.24	51,255,081.68	410,033.07	21,193.19
SURPLUS				
Debentures paid.....	39,094.33	27,123,856.39	101,254.06	11,434.97
Local sinking fund.....		1,257,468.84		
Operating surplus.....	123,989.33	10,980,326.64	269,599.80	25.12
Total surplus.....	163,083.66	39,361,651.87	370,853.86	11,460.09
Total liabilities, reserves and surplus.....	377,094.54	94,669,882.40	883,197.38	43,005.63
Percentage of net debt to total assets.....	8.0	4.6	15.3	41.3

*Includes 1948 Power Adjustment and equity.

"A"—Continued

Hydro Municipalities as at December 31, 1948

Trafalgar Twp. V.A.	Trenton 9,218	Tweed 1,600	Uxbridge 1,515	Victoria Harbour 940	Walkerton 2,954
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
12,723.36	6,054.20				47.92
839.61	50,285.89		2,657.65		
56,922.81	146,955.83	25,363.83	23,441.82	13,276.62	50,943.93
27,299.73	45,712.78	11,344.98	9,663.32	3,058.26	31,349.02
13,629.40	55,219.13	8,505.75	9,085.76	5,197.86	19,145.85
192.54	12,206.43	2,478.39	2,088.61	366.32	2,977.43
	10,549.81				
4,656.21	11,409.90		39.94	651.30	3,543.93
					4,897.60
116,263.66	338,393.97	47,692.95	46,977.10	22,550.36	112,905.68
	10,390.40	1,071.94	1,464.85	220.63	3,546.23
	105,500.00	12,000.00	9,000.00	3,000.00	30,000.00
2,369.15	2,093.41	2,607.54	189.39	269.11	502.40
	19,599.21	2,848.57	161.64		939.96
20,850.44	174,035.79	19,247.69	33,887.66	10,505.88	43,018.12
	33.64		640.00		
139,483.25	650,046.42	85,468.69	92,320.64	36,545.98	190,912.39
1,189.75					13,766.79
20,255.19		1,173.73	995.80	10.80	
749.52					
353.00	5,977.66	331.00	799.00		277.00
22,547.46	5,977.66	1,504.73	1,794.80	10.80	14,043.79
20,850.44	174,035.79	19,247.69	33,887.66	10,505.88	43,018.12
29,953.08	96,661.10	3,127.11	9,391.22	7,705.03	16,887.02
		411.70	184.37		37.15
50,803.52	270,696.89	22,786.50	43,463.25	18,210.91	59,942.29
27,697.81	164,586.70	19,000.00	15,364.09	6,500.00	49,233.21
38,434.46	208,785.17	42,177.46	31,698.50	11,824.27	67,693.10
66,132.27	373,371.87	61,177.46	47,062.59	18,324.27	116,926.31
139,483.25	650,046.42	85,468.69	92,320.64	36,545.98	190,912.39
19.0	1.3	2.2	3.1	0.0	9.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Wallaceburg	Wardsville	Warkworth	Waterdown
Population.....	6,611	315	P.V.	1,035
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	55,789.65			200.00
Substation equipment.....	36,217.72			
Distribution system—overhead.....	103,262.28	6,748.53	6,217.78	18,980.16
Distribution system—underground.....				
Line transformers.....	75,875.97	2,459.96	2,010.91	9,842.84
Meters.....	40,628.87	2,223.49	2,600.16	8,231.45
Street light equipment, regular.....	13,645.78	662.94	343.08	1,320.38
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	9,660.30	611.93	609.19	296.54
Steam or hydraulic plant.....				
Old plant.....			3,618.02	
Total plant.....	335,080.57	12,706.85	15,399.14	38,871.37
Bank and cash balance.....	27,914.12	912.02	2,278.73	
Securities and investments.....	70,500.00	4,000.00	4,200.00	9,000.00
Accounts receivable.....	7,635.22	486.32	19.97	214.01
Inventories.....	23,527.89			164.00
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	333,678.81	6,072.49	6,900.41	34,802.03
Other assets.....	5,496.00			52.50
Total assets.....	803,832.61	24,177.68	28,798.25	83,103.91
LIABILITIES				
Debenture balance.....			3,929.62	
Accounts payable.....	107.04	514.15	341.42	
Bank overdraft.....				348.59
Other liabilities.....	3,846.60		29.20	124.28
Total liabilities.....	3,953.64	514.15	4,300.24	472.87
RESERVES				
For equity in H-E.P.C. systems.....	333,678.81	6,072.49	6,900.41	34,802.03
For depreciation.....	94,674.73	4,729.13	4,176.32	11,686.89
Other reserves.....	1,753.69	25.22		
Total reserves.....	430,107.23	10,826.84	11,076.73	46,488.92
SURPLUS				
Debentures paid.....	71,536.58	7,562.40	7,070.38	8,000.00
Local sinking fund.....				
Operating surplus.....	298,235.16	5,274.29	6,350.90	28,142.12
Total surplus.....	369,771.74	12,836.69	13,421.28	36,142.12
Total liabilities, reserves and surplus.....	803,832.61	24,177.68	28,798.25	83,103.91
Percentage of net debt to total assets.....	0.8	2.8	19.6	1.0

“A”—Continued

Hydro Municipalities as at December 31, 1948

Waterford	Waterloo	Watford	Waubashene	Welland	Wellesley
1,460	10,408	1,022	P.V.	15,423	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,323.44	19,587.15	857.01		78,841.05	
	124,366.20			135,605.34	
17,729.32	118,222.39	18,345.82	11,891.82	206,772.13	8,480.85
				8,044.90	
14,429.70	95,804.57	9,471.22	4,272.15	132,689.05	4,763.54
9,549.34	55,381.05	7,555.53	4,000.37	98,426.52	4,044.85
3,231.62	14,597.33	2,757.32	374.53	35,598.36	785.22
	3,106.80			41,105.28	
686.40	8,521.38	1,962.21	20.00	9,579.48	
	23,880.17				
46,949.82	463,467.04	40,949.11	20,558.87	746,662.11	18,074.46
2,963.96	321.52	6,192.11	577.15	33,769.58	1,300.91
11,000.00	41,000.00	14,800.00		144,682.23	6,000.00
	8,032.69	465.54	1,007.55	4,461.76	
111.00	823.78	1,095.85		31,310.73	92.08
52,169.02	451,770.40	40,749.70	8,122.04	559,409.73	24,734.58
	106.66	7.50		131.50	
113,193.80	965,522.09	104,259.81	30,265.61	1,520,427.64	50,202.03
207.48	3,266.13	12.50	378.09	2,707.98	53.24
	3,586.80	287.10	600.00	54,823.77	10.00
207.48	6,852.93	299.60	978.09	57,531.75	63.24
52,169.02	451,770.40	40,749.70	8,122.04	559,409.73	24,734.58
15,712.52	202,273.16	15,649.92	3,893.38	238,534.52	5,445.42
	55.29	92.53	125.00	3,625.48	
67,881.54	654,098.85	56,492.15	12,140.42	801,569.73	30,180.00
7,745.53	106,000.00	9,055.77	3,242.34	275,000.00	7,500.00
37,359.25	198,570.31	38,412.29	13,904.76	386,326.16	12,458.79
45,104.78	304,570.31	47,468.06	17,147.10	661,326.16	19,958.79
113,193.80	965,522.09	104,259.81	30,265.61	1,520,427.64	50,202.03
0.3	0.7	0.5	4.4	1.8	0.2

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Wellington	West Lorne	Weston	Westport
Population	1,014	960	6,789	675
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	200.00	9,249.06	21,620.44	.....
Substation equipment	499.80	.....	65,455.63	.....
Distribution system—overhead	17,637.38	15,510.77	96,967.94	8,044.83
Distribution system—underground .....	.....	.....	.....	.....
Line transformers	9,842.99	8,651.95	91,251.49	2,727.92
Meters	8,788.92	6,744.94	44,953.17	2,685.20
Street light equipment, regular	1,391.97	3,718.84	29,978.62	733.02
Street light equipment, ornamental .....	.....	.....	.....	.....
Miscellaneous construction expense	779.66	388.63	10,506.79	1,309.97
Steam or hydraulic plant .....	.....	.....	.....	.....
Old plant	2,477.92	.....	.....	1,713.00
Total plant	41,618.64	44,264.19	360,734.08	17,213.94
Bank and cash balance	3,767.63	1,872.27	4,421.84	764.44
Securities and investments	12,000.00	1,500.00	31,500.00	4,500.00
Accounts receivable	44.24	39.45	1,534.14	.....
Inventories .....	.....	440.09	506.42	.....
Sinking fund on local debentures .....	.....	.....	.....	.....
Equity in H-E.P.C. systems	18,263.18	39,458.41	399,026.11	9,852.36
Other assets .....	.....	.....	253.34	.....
Total assets	75,693.69	87,574.41	797,975.93	32,330.74
LIABILITIES	.....	.....	.....	.....
Debenture balance .....	.....	.....	.....	3,386.42
Accounts payable	76.58	1,937.12	12,362.74	91.07
Bank overdraft .....	.....	.....	.....	.....
Other liabilities	46.25	327.00	1,877.67	287.42
Total liabilities	122.83	2,264.12	14,240.41	3,764.91
RESERVES	.....	.....	.....	.....
For equity in H-E.P.C. systems	18,263.18	39,458.41	399,026.11	9,852.36
For depreciation	10,892.34	10,820.58	83,674.66	3,744.95
Other reserves .....	.....	65.12	365.40	.....
Total reserves	29,155.52	50,344.11	483,066.17	13,597.31
SURPLUS	.....	.....	.....	.....
Debentures paid	17,000.00	8,000.00	70,032.44	11,613.58
Local sinking fund .....	.....	.....	.....	.....
Operating surplus	29,415.34	26,966.18	230,636.91	3,354.94
Total surplus	46,415.34	34,966.18	300,669.35	14,968.52
Total liabilities, reserves and surplus ..	75,693.69	87,574.41	797,975.93	32,330.74
Percentage of net debt to total assets ..	0.2	4.7	3.6	16.7

“A”—Continued

Hydro Municipalities as at December 31, 1948

Wheatley 872	Whitby 4,611	Warton 2,016	Williams- burg P.V.	Winchester 1,101	Windermere 118	Windsor 118,533
\$ c. 52.50	\$ c. 67,373.13	\$ c. 333.57	\$ c. 3,723.88	\$ c. 299.85	\$ c. 10,362.76	\$ c. 612,595.46
22,434.27	34,288.16	26,102.08	13,589.24	7,325.22	1,652,596.07	1,506,197.36
11,710.03	29,047.80	13,453.65	2,406.72	5,291.36	448,755.60	703,999.75
8,848.56	29,575.79	11,112.65	2,617.52	1,596.51	674,651.35	109,031.00
9,501.28	13,299.92	3,513.56	813.50	745.75	247.26	1,021,495.33
2,278.65	13,864.71	7,136.20	35.38	164.00	525.65	250,458.38
	1,340.13	1,870.35		1,100.00		166,440.66
54,825.29	268,230.63	63,522.06	9,597.00	31,336.21	18,023.54	7,146,220.96
97.73		3,794.06	4,923.80	14,155.46	1,174.10	1,075.00
500.00	12,000.00	14,000.00	22,000.00	3,500.00	2,600.00	1,270,564.45
55.01	2,552.62	1,372.12	537.44	72.61	112.57	156,772.40
	755.48	135.07			61.00	395,396.19
24,189.26	92,446.43	27,776.77	10,149.11	32,817.10	4,613.32	98,142.28
23.84						5,021,581.09
79,667.29	376,009.00	110,600.08	47,207.35	81,881.38	26,584.53	610.00
						14,090,362.37
3,734.44	1,609.41	10,641.76	429.03	385.65	2,822.04	190,000.00
620.00	6,868.53	3,980.80			502.51	124,499.67
	7,603.29		298.43	10.00		293,418.95
	1,657.97	182.21				1,151,341.35
4,354.44	17,739.20	14,804.77	727.46	395.65	3,324.55	1,759,259.97
24,189.26	92,446.43	27,776.77	10,149.11	32,817.10	4,613.32	5,021,581.09
12,416.95	40,587.37	8,969.02	4,976.88	13,557.69	5,703.70	2,104,591.88
52.11		84.95	327.28			258,742.24
36,658.32	133,033.80	36,830.74	15,453.27	46,374.79	10,317.02	7,384,915.21
13,000.00	75,003.09	26,758.24	2,750.00	10,306.06	8,941.26	2,393,832.05
25,654.53	150,232.91	32,206.33	28,276.62	24,804.88	4,001.70	98,142.28
38,654.53	225,236.00	58,964.57	31,026.62	35,110.94	12,942.96	2,454,212.86
79,667.29	376,009.00	110,600.08	47,207.35	81,881.38	26,584.53	4,946,187.19
7.9	6.2	17.9	2.0	0.8	15.1	14,090,362.37
						9.3

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Concluded

Municipality.....	Wingham	Woodbridge	Woodstock	Woodville
Population.....	2,302	1,246	13,164	416
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	22,342.81		66,614.29	
Substation equipment.....	4,863.91		137,550.71	
Distribution system—overhead.....	47,573.66	21,597.45	178,377.08	3,859.49
Distribution system—underground.....				
Line transformers.....	27,441.58	10,248.82	102,797.11	2,058.54
Meters.....	23,082.27	7,793.03	99,065.70	2,473.60
Street light equipment, regular.....	11,227.49	2,469.59	28,542.55	574.98
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	13,871.24	56.80	18,914.40	
Steam or hydraulic plant.....	14,711.99		16,118.96	
Old plant.....	12,320.02			
Total plant.....	177,434.97	42,165.69	647,980.80	8,966.61
Bank and cash balance.....		2,003.08		699.33
Securities and investments.....		13,000.00	48,000.00	5,000.00
Accounts receivable.....	8,224.66	43.28	6,024.78	174.29
Inventories.....	26,968.70		920.32	
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	66,858.79	55,063.50	682,432.10	15,560.60
Other assets.....	768.11		297.70	
Total assets.....	280,255.23	112,275.55	1,385,655.70	30,400.83
LIABILITIES				
Debenture balance.....	8,112.73			
Accounts payable.....	1,095.91	785.63	3,051.34	885.26
Bank overdraft.....	10,363.10		35,580.07	
Other liabilities.....	790.15	837.23	9,867.45	15.00
Total liabilities.....	20,361.89	1,622.86	48,498.86	900.26
RESERVES				
For equity in H-E.P.C. systems.....	66,858.79	55,063.50	682,432.10	15,560.60
For depreciation.....	46,315.93	16,150.43	227,581.94	4,189.71
Other reserves.....			1,086.01	560.56
Total reserves.....	113,174.72	71,213.93	911,100.05	20,310.87
SURPLUS				
Debentures paid.....	87,992.77	8,499.97	127,385.63	5,248.09
Local sinking fund.....				
Operating surplus.....	58,725.85	30,938.79	298,671.16	3,941.61
Total surplus.....	146,718.62	39,438.76	426,056.79	9,189.70
Total liabilities, reserves and surplus.....	280,255.23	112,275.55	1,385,655.70	30,400.83
Percentage of net debt to total assets.....	9.5	2.8	6.9	6.1

“A”—Continued

Hydro Municipalities as at December 31, 1948

THUNDER BAY SYSTEM—					
Wyoming 617	York Twp. V.A.	Zurich P.V.	SOUTHERN ONTARIO SYSTEM SUMMARY	Fort William 32,187	Nipigon Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
50.00	81,613.25		12,106,819.74	108,401.13	215.03
	498,145.04		28,594,005.33	228,195.75	
13,371.75	990,476.88	8,610.63	29,849,169.41	311,169.89	25,899.93
			8,040,205.01		
5,083.82	492,604.44	5,562.48	16,976,428.55	148,465.20	9,772.41
5,075.01	435,905.15	3,927.22	13,328,638.22	136,592.28	7,336.48
548.49	122,932.89	621.57	4,096,427.24	89,979.30	4,216.51
			1,558,798.17		
820.52	78,943.90	332.45	4,123,005.09	61,961.91	1,766.00
			1,132,288.37		
			573,313.04		
24,949.59	2,700,621.55	19,054.35	120,379,098.17	1,084,765.46	49,206.36
471.14	16,758.88	894.21	3,466,118.19		1,385.55
2,600.00	200,000.00	6,500.00	25,600,047.30	270,300.00	11,000.00
85.61	73,464.36	113.00	3,785,679.20	37,547.93	285.12
	48,155.70		3,624,400.49	68,262.75	
			1,637,485.97	157,809.64	
13,396.41	1,289,089.50	21,366.73	87,780,101.41	1,445,625.60	16,361.23
			539,653.99	131.55	
41,502.75	4,328,089.99	47,928.29	246,812,584.72	3,064,442.93	78,238.26
	7,720.33		4,985,623.14	250,000.00	
1,703.64	82,339.20	540.48	3,576,241.84	52,137.22	857.90
			726,957.33	53,407.45	
78.89	70,905.12	10.00	2,643,739.25	44,175.94	374.24
1,782.53	160,964.65	550.48	11,932,561.56	399,720.61	1,232.14
13,396.41	1,289,089.50	21,366.73	87,780,101.41	1,445,625.60	16,361.23
6,986.17	885,296.58	6,647.18	40,227,040.68	254,595.40	8,313.94
32.63	16,204.55		4,286,420.32	40,028.50	
20,415.21	2,190,590.63	28,013.91	132,293,562.41	1,740,249.50	24,675.17
9,700.00	481,654.32	5,591.61	51,997,138.81	124,209.11	10,000.00
			1,637,485.97	157,809.64	
9,605.01	1,494,880.39	13,772.29	48,951,835.97	642,454.07	42,330.95
19,305.01	1,976,534.71	19,363.90	102,586,460.75	924,472.82	52,330.95
41,502.75	4,328,089.99	47,928.29	246,812,584.72	3,064,442.93	78,238.26
6.3	5.3	2.1	5.6	16.5	2.0

STATEMENT

Balance Sheets of Electrical Departments of

THUNDER BAY SYSTEM—Concluded

Municipality.....	Port Arthur	Red Rock	Terrace Bay	THUNDER BAY SYSTEM SUMMARY
Population.....	27,679	I.D.	I.D.	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	533,085.27			641,701.43
Substation equipment.....	404,900.28	900.00		633,996.03
Distribution system—overhead.....	618,795.62	16,611.74	37,971.34	1,010,448.52
Distribution system—underground.....				
Line transformers.....	172,688.38	9,052.00	18,402.70	358,380.69
Meters.....	163,602.23	3,936.08	7,779.22	319,246.29
Street light equipment, regular.....	93,760.33	3,571.00	11,886.91	203,414.05
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	47,247.97	1,833.00	604.37	113,413.25
Steam or hydraulic plant.....	325,003.44			325,003.44
Old plant.....				
Total plant.....	2,359,083.52	35,903.82	76,644.54	3,605,603.70
Bank and cash balance.....	2,076.55	3,133.43	3,126.64	9,722.17
Securities and investments.....	682,195.03			963,495.03
Accounts receivable.....	73,656.77	214.56	136.11	111,840.49
Inventories.....	54,818.14			123,080.89
Sinking fund on local debentures.....				157,809.64
Equity in H-E.P.C. systems.....	3,646,979.62			5,108,966.45
Other assets.....	1,050.00			1,181.55
Total assets.....	6,819,859.63	39,251.81	79,907.29	10,081,699.92
LIABILITIES				
Debenture balance.....		30,030.00		280,030.00
Accounts payable.....	67,302.49	3,982.66	579.85	124,860.12
Bank overdraft.....				53,407.45
Other liabilities.....			76,416.97	120,967.15
Total liabilities.....	67,302.49	34,012.66	76,996.82	579,264.72
RESERVES				
For equity in H-E.P.C. systems.....	3,646,979.62			5,108,966.45
For depreciation.....	918,381.43	681.00	1,422.00	1,183,393.77
Other reserves.....	139,856.55			179,885.05
Total reserves.....	4,705,217.60	681.00	1,422.00	6,472,245.27
SURPLUS				
Debentures paid.....	642,100.00	1,170.00		777,479.11
Local sinking fund.....				157,809.64
Operating surplus.....	1,405,239.54	3,388.15	1,488.47	2,094,901.18
Total surplus.....	2,047,339.54	4,558.15	1,488.47	3,030,189.93
Total liabilities, reserves and surplus.....	6,819,859.63	39,251.81	79,907.29	10,081,699.92
Percentage of net debt to total assets.....	2.1	86.6	96.3	8.7

"A"—Concluded

Hydro Municipalities as at December 31, 1948

NORTHERN ONTARIO DISTRICTS

Capreol 1,736	North Bay 17,631	Sioux Lookout 2,155	Sudbury 37,640	NORTHERN ONTARIO DISTRICTS SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
450.00	61,160.76		171,401.53	233,012.29	12,981,533.46
9,730.32	107,768.12		281,121.56	398,620.00	29,626,621.36
14,361.17	183,508.20	19,872.24	463,717.54	681,459.15	31,541,077.08
					8,040,205.01
8,673.78	69,197.80	10,370.72	170,380.30	258,622.60	17,593,431.84
7,780.18	104,487.96	9,406.26	178,454.33	300,128.73	13,948,013.24
4,143.76	35,729.81	1,917.69	144,526.43	186,317.69	4,486,158.98
					1,558,798.17
1,619.48	28,609.93	1,712.00	21,887.83	53,829.24	4,290,247.58
					1,457,291.81
					573,313.04
46,758.69	590,462.58	43,278.91	1,431,489.52	2,111,989.70	126,096,691.57
1,325.08		2,938.82		4,263.90	3,480,104.26
3,000.00			125,000.00	128,000.00	26,691,542.33
166.01	47,376.65	2,376.18	39,660.29	89,579.13	3,987,098.82
	23,871.49		43,601.06	67,472.55	3,814,953.93
					1,795,295.61
	1,117.06	30.00		1,147.06	92,889,067.86
					541,982.60
51,249.78	662,827.78	48,623.91	1,639,750.87	2,402,452.34	259,296,736.98
136.25	21,147.49	5,405.16	31,484.22	31,484.22	5,297,137.36
	39,146.66		86,026.38	112,715.28	3,813,817.24
465.00	37,832.00	2,812.12	20,462.26	59,608.92	839,973.70
			35,528.78	76,637.90	2,841,344.30
601.25	98,126.15	8,217.28	173,501.64	280,446.32	12,792,272.60
10,486.37	280,157.54	2,789.64	258,405.09	551,838.64	92,889,067.86
82.34	2,495.32	128.20	76,746.16	79,452.02	41,962,273.09
					4,545,757.39
10,568.71	282,652.86	2,917.84	335,151.25	631,290.66	139,397,098.34
19,000.00	228,157.68		435,854.31	683,011.99	53,457,629.91
21,079.82	53,891.09	37,488.79	695,243.67	807,703.37	1,795,295.61
					51,854,440.52
40,079.82	282,048.77	37,488.79	1,131,097.98	1,490,715.36	107,107,366.04
51,249.78	662,827.78	48,623.91	1,639,750.87	2,402,452.34	259,296,736.98
1.2	14.8	16.9	10.6	11.6	5.2

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—

Municipality.....	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population.....	2,367	P.V.	470	2,160	1,950
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	22,483.75	8,670.37	3,923.89	12,766.20	17,537.94
Commercial light service.....	9,245.64	2,772.15	1,325.21	9,706.00	9,576.19
Commercial power service.....	37,735.68	2,402.74	2,158.13	6,477.85	8,184.59
Municipal power.....	813.65			933.05	955.09
Street lighting.....	2,404.31	920.42	667.45	2,015.75	2,065.20
Merchandise.....	112.63				.39
Miscellaneous.....	227.95	457.35	287.56	1,072.68	205.28
Total earnings.....	73,023.61	15,223.03	8,362.24	32,971.53	38,524.68
EXPENSES					
Cost of power supplied by H-E.P.C.	54,275.08	8,628.68	5,689.60	16,340.31	19,519.53
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	4,793.77	102.56	636.86	2,266.51	2,648.93
Line transformer maintenance.....	60.00	182.44	360.27	345.44	373.03
Meter maintenance.....	571.88	300.80	395.22	407.29	413.13
Consumers' premises expenses.....	31.10	156.30	19.89		846.93
Street lighting, operation and maintenance.....	745.78	71.36	80.99	390.19	461.83
Promotion of business.....					
Billing and collecting.....	1,505.18	904.80		1,333.08	1,469.77
General office, salaries and expenses	1,458.37	217.50	596.25	1,247.24	1,263.33
Undistributed expenses.....	1,218.38	11.12	29.13	154.48	177.15
Truck operation and maintenance...	431.72			255.06	501.01
Interest.....	2.75				
Sinking fund and principal payments on debentures.....					
Depreciation.....	2,173.00	826.00	443.00	1,357.00	2,078.00
Other reserves.....					
Total operating costs and fixed charges.....	67,267.01	11,401.56	8,251.21	24,096.60	29,752.64
Net surplus.....	5,756.60	3,821.47	111.03	8,874.93	8,772.04
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	686	200	167	526	502
Commercial light service.....	105	36	34	136	127
Power service.....	22	5	4	18	23
Total.....	813	241	205	680	652

“B”

Hydro Municipalities for Year Ended December 31, 1948

Almonte	Alvinston	Amherstburg	Ancaster Twp. V.A.	Apple Hill	Arkona	Arnprior
2,517	694	3,280		P.V.	395	4,316
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
22,103.12	4,063.93	33,003.13	16,659.79	1,716.11	4,246.23	28,444.39
9,318.81	3,425.52	14,426.96	5,532.84	1,054.92	2,060.83	15,885.13
17,553.70	1,417.09	13,676.24	999.87	320.04	317.96	23,857.60
1,257.99	263.22		437.24			2,480.98
2,820.00	1,608.38	2,556.62	1,193.00	478.50	1,112.00	3,475.92
1,591.12		678.87				
6,645.23	330.00	713.66	37.87	130.83	120.10	2,813.46
61,289.97	11,108.14	65,055.48	24,860.61	3,700.40	7,857.12	76,957.48
17,646.61	6,095.13	43,032.70	13,526.10	1,674.54	4,645.21	43,370.92
9,426.90						
3,536.78	526.53	4,386.12	2,957.81	430.16	440.91	1,517.62
114.64	2.50	306.80	303.86		28.10	338.39
365.05	152.79	621.32	767.43	46.30	103.67	790.32
32.17		1,646.99	10.13			279.71
438.80	135.78	1,178.33	194.46	87.31	158.68	545.91
		7.50				
2,850.27	562.50	1,097.62	1,982.41	337.38	316.60	2,723.89
3,092.34	404.95	1,501.92	916.49	97.03	189.20	3,203.32
495.49	37.95	611.72	325.20		8.63	397.60
605.80		736.49	1,067.13			
1,303.26		1.05	661.83			516.90
3,594.29			1,099.18			3,371.92
4,130.00	684.00	3,855.00	1,814.00	176.00	360.00	2,179.00
			75.00			
47,632.40	8,602.13	58,983.56	25,701.03	2,848.72	6,251.00	59,235.50
13,657.57	2,506.01	6,071.92		851.68	1,606.12	17,721.98
			840.42			
710	233	857	376	74	132	1,036
117	58	177	50	28	38	177
26	5	23	10	1	2	29
853	296	1,057	436	103	172	1,242

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Arthur	Athens	Aurora	Aylmer	Ayr
Population.....	1,172	801	3,396	3,164	800
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	8,162.01	6,143.11	34,269.65	22,532.07	7,461.44
Commercial light service.....	6,982.21	3,105.03	11,984.01	16,022.40	3,662.90
Commercial power service.....	1,384.22	890.97	26,419.60	21,237.24	6,343.91
Municipal power.....	430.93	.....	1,976.35	1,149.24	.....
Street lighting.....	1,721.62	1,204.00	4,366.86	3,744.00	1,144.50
Merchandise.....	.....	.....	.....	34.38	.....
Miscellaneous.....	180.16	309.73	360.00	900.00	153.48
Total earnings.....	18,861.15	11,652.84	79,376.47	65,619.33	18,766.23
EXPENSES					
Cost of power supplied by H-E.P.C.	10,263.42	5,865.24	47,166.71	40,934.77	10,686.74
Substation operation.....	.....	.....	.....	.....	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	1,358.16	145.27	3,372.49	4,228.86	1,494.23
Line transformer maintenance.....	.....	.....	498.06	13.68	.75
Meter maintenance.....	178.50	641.27	990.68	1,713.59	12.22
Consumers' premises expenses.....	.....	.....	3,337.44	240.74	15.55
Street lighting, operation and maintenance.....	314.75	89.66	552.20	601.10	265.42
Promotion of business.....	.....	.....	.....	.....	.....
Billing and collecting.....	809.02	365.86	1,969.34	1,746.74	962.94
General office, salaries and expenses	353.30	126.24	2,352.62	2,129.55	111.40
Undistributed expenses.....	55.70	.....	1,683.30	588.38	72.87
Truck operation and maintenance.....	.....	.....	199.54	470.42	.....
Interest.....	152.08	71.39	.....	29.76	37.30
Sinking fund and principal payments on debentures.....	547.68	1,110.43	.....	.....	363.91
Depreciation.....	1,020.00	729.00	1,884.00	3,343.00	910.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	15,052.61	9,144.36	64,006.38	56,040.59	14,933.33
Net surplus.....	3,808.54	2,508.48	15,370.09	9,578.74	3,832.90
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	303	210	899	861	248
Commercial light service.....	90	53	133	190	49
Power service.....	7	2	25	24	9
Total.....	400	265	1,057	1,075	306

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Baden P.V.	Barrie 11,286	Bath 335	Beachville P.V.	Beamsville 1,508	Beaverton 906	Beeton 614
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,392.15	110,157.96	4,306.51	5,357.70	15,712.68	9,745.64	4,814.87
2,675.98	59,141.18	1,026.72	796.26	6,808.86	4,545.10	3,646.82
8,054.96	50,012.11	198.63	19,347.52	3,181.71	2,712.57	565.40
.....	5,605.61	.....	.....	.....	.....	.....
738.00	7,688.49	434.61	517.00	1,974.39	1,676.61	1,390.00
3.05	296.06	.....	.....	.....	10.18	12.72
266.13	3,560.49	.....	645.00	426.00	296.00	322.93
17,130.27	236,461.90	5,966.47	26,663.48	28,103.64	18,986.10	10,752.74
.....
10,960.83	126,058.01	3,113.82	20,286.65	16,813.28	10,099.54	5,728.98
.....	1,977.50	.....	.....	.....	.....	.....
.....	277.44	.....	.....	.....	.....	.....
314.73	15,221.54	138.28	755.80	1,276.77	1,918.80	1,645.59
.....	1,038.53	.....	175.47	29.07	134.73	240.44
368.21	4,197.35	22.15	329.13	260.62	221.17	51.85
24.85	4,961.04	.....	222.08	159.77	638.23	.....
68.95	1,079.22	46.30	203.92	331.75	366.75	304.60
.....	361.78	.....	.....	.....	.....	.....
338.72	7,013.89	257.93	499.18	1,376.65	1,622.98	378.73
247.97	4,623.08	158.54	215.03	581.51	965.64	219.19
26.84	2,818.73	.....	11.35	16.57	33.71	55.12
.....	2,240.84	.....	.....	.....	.....	.....
.....	73.10	147.40	.....	.....	69.99	48.46
.....	.....	480.20	.....	.....	.....	929.31
623.00	14,409.26	240.00	620.00	1,454.00	1,125.00	573.00
.....	89.39	.....	.....	.....	.....	.....
12,974.10	186,440.70	4,604.62	23,318.61	22,299.99	17,196.54	10,175.27
4,156.17	50,021.20	1,361.85	3,344.87	5,803.65	1,789.56	577.47
.....
.....
172	2,897	90	188	480	375	165
32	489	14	22	88	74	42
3	74	1	4	9	10	6
207	3,460	105	214	577	459	213

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Belle River	Belleville	Blenheim	Bloomfield	Blyth
Population.....	1,194	16,976	2,265	633	838
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	8,322.92	141,121.80	12,549.60	4,529.57	5,318.89
Commercial light service.....	4,531.80	78,068.69	12,610.16	2,929.05	2,842.49
Commercial power service.....	513.35	60,022.41	10,347.84	1,871.36	2,564.68
Municipal power.....	1,828.73	5,625.57	1,677.03		
Street lighting.....	1,476.00	11,318.25	3,570.00	845.00	1,382.64
Merchandise.....		8,269.43	648.87		
Miscellaneous.....	93.50	3,110.95	909.76	300.00	263.08
Total earnings.....	16,766.30	307,537.10	42,313.26	10,474.98	12,371.78
EXPENSES					
Cost of power supplied by H-E.P.C.	9,456.15	204,516.55	20,039.62	6,461.27	7,475.21
Substation operation.....		4,627.55			
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,588.94	8,955.21	1,001.89	112.54	920.44
Line transformer maintenance.....	151.11	483.57	108.94		99.55
Meter maintenance.....	613.40	4,289.86	422.64	369.17	229.05
Consumers' premises expenses.....	51.13	2,446.32	83.70		12.20
Street lighting, operation and maintenance.....	237.53	2,637.34	889.18	211.10	132.06
Promotion of business.....		5,662.12	9.00		
Billing and collecting.....	950.44	8,459.41	1,816.60	423.14	435.36
General office, salaries and expenses	531.38	9,814.52	2,444.91	133.00	128.78
Undistributed expenses.....	60.05	1,999.83	9.51	2.19	70.60
Truck operation and maintenance.....		2,496.78			
Interest.....	17.83		149.98	32.96	11.09
Sinking fund and principal payments on debentures.....				548.30	
Depreciation.....	1,352.00	14,776.00	3,332.00	465.00	500.00
Other reserves.....					
Total operating costs and fixed charges.....	15,009.96	271,165.06	30,307.97	8,758.67	10,014.34
Net surplus.....	1,756.34	36,372.04	12,005.29	1,716.31	2,357.44
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	398	4,546	648	197	185
Commercial light service.....	63	715	168	47	51
Power service.....	6	116	22	8	7
Total.....	467	5,377	838	252	243

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Bobcaygeon	Bolton	Bothwell	Bowmanville	Bradford	Braeside	Brampton
1,064	748	734	4,243	1,307	419	6,152
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
10,959.39	7,449.60	3,458.91	45,757.57	11,180.13	2,364.17	67,915.89
7,402.66	3,575.97	2,887.25	15,384.84	10,185.52	506.08	26,856.76
1,506.72	3,674.22	1,104.98	72,370.04	8,305.33	6,109.68	25,030.84
.....	129.57	136.72	.....	743.45	.....	3,038.95
2,100.00	1,097.71	1,117.50	4,401.52	1,404.00	420.00	7,035.56
.....	.....	.....	4,944.03	133.81	.....	76.28
109.48	378.77	510.00	5,749.66	225.00	.....	1,726.25
22,078.25	16,305.84	9,215.36	148,607.66	32,177.24	9,399.93	131,680.53
11,364.59	8,621.52	5,607.21	91,096.37	15,298.41	6,035.73	89,970.39
1,086.35	.....	.....	51.60	.....	.....	861.63
1,570.42	702.53	741.94	7,196.86	2,466.73	344.25	3,534.35
226.36	95.68	.....	54.58	116.42	50.28	214.13
897.78	.....	143.36	1,579.12	433.89	59.84	64.78
.....	245.42	.....	6,149.07	9.72	.....	789.40
450.42	169.04	232.14	822.99	197.07	25.03	1,379.38
.....	.....	.....	514.43	.....	.....	.....
626.53	478.20	526.03	3,175.77	985.00	289.56	3,385.81
489.63	521.67	331.12	5,454.72	774.62	275.50	2,472.03
164.93	15.19	7.08	2,011.81	101.55	.....	.....
1,695.39	.....	.....	.....	662.00	.....	.....
.....	.....	.....	.....	113.98	214.80	.....
3,106.82	.....	.....	.....	1,121.70	226.68	.....
2,817.00	584.00	559.00	4,152.00	1,018.00	164.00	5,034.00
24,496.22	11,433.25	8,147.88	122,259.32	23,299.09	7,685.67	107,705.90
.....	4,872.59	1,067.48	26,348.34	8,878.15	1,714.26	23,974.63
2,417.97	.....	.....	.....	.....	.....	.....
435	220	209	1,314	350	101	1,902
83	52	64	201	88	9	316
6	16	10	30	17	3	66
524	288	283	1,545	455	113	2,284

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Brantford	Brantford Twp. V.A.	Brechin	Bridgeport	Brigden
Population.....	35,815		P.V.	P.V.	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	235,657.92	73,868.60	2,206.04	7,260.81	2,605.61
Commercial light service.....	122,672.24	11,464.97	1,358.49	2,302.13	2,029.00
Commercial power service.....	370,866.08	12,611.03	746.98	2,906.49	3,838.60
Municipal power.....	10,085.62				
Street lighting.....	35,055.30	8,640.25	476.00	916.00	799.52
Merchandise.....			.11		
Miscellaneous.....	10,876.22		15.00	200.96	205.88
Total earnings.....	785,213.38	106,584.85	4,802.62	13,586.39	9,478.61
EXPENSES					
Cost of power supplied by H-E.P.C.	571,229.34	64,706.12	2,096.61	8,043.99	5,420.37
Substation operation.....	12,795.60	368.39			
Substation maintenance.....	3,499.10				
Distribution system, operation and maintenance.....	16,458.61	4,564.97	538.10	870.44	677.58
Line transformer maintenance.....	2,825.32	561.88		46.51	15.30
Meter maintenance.....	12,380.07	2,024.13		108.10	600.09
Consumers' premises expenses.....	21,657.30	70.56		124.96	
Street lighting, operation and main- tenance.....	4,191.25	1,837.17	112.20	192.55	65.00
Promotion of business.....	95.70				
Billing and collecting.....	12,670.68	4,258.70	237.83	670.82	414.78
General office, salaries and expenses	19,650.75	5,304.57	28.05	48.36	206.69
Undistributed expenses.....	889.48	1,986.81		14.17	22.75
Truck operation and maintenance.....		2,983.87		78.11	
Interest.....		3,502.66	112.77		3.96
Sinking fund and principal payments on debentures.....		2,352.32	91.46		
Depreciation.....	27,465.00	7,732.00	136.00	908.00	420.00
Other reserves.....					
Total operating costs and fixed charges.....	705,808.20	102,254.15	3,353.02	11,106.01	7,846.52
Net surplus.....	79,405.18	4,330.70	1,449.60	2,480.38	1,632.09
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	9,280	2,314	70	227	137
Commercial light service.....	1,509	109	32	26	46
Power service.....	242	14	2	5	6
Total.....	11,031	2,437	104	258	189

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1948

Brighton 1,875	Brockville 11,854	Brussels 766	Burford P.V.	Burgessville P.V.	Burlington 4,943	Caledonia 1,485
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
14,618.69	89,750.41	6,792.57	7,786.76	2,328.46	57,706.71	9,657.68
7,155.92	37,177.57	3,705.45	3,126.92	842.59	25,038.35	7,097.95
5,824.04	126,546.42	3,527.56	2,456.70	1,691.23	20,863.40	2,987.03
	7,583.92					113.43
2,028.12	8,673.60	1,167.09	725.98	312.00	2,976.23	2,364.26
121.38						11.34
360.79	4,079.49	410.09	164.00	84.00	1,533.41	100.40
30,108.94	273,811.41	15,602.76	14,260.36	5,258.28	108,118.10	22,332.09
17,208.47	195,283.57	9,686.28	10,788.00	3,326.58	50,786.06	12,420.28
	9,822.12					
2,059.13	5,028.00	602.12	770.45	371.36	6,400.59	1,547.21
124.71	241.81	7.67	73.32	1.80	100.32	105.80
564.55	3,094.31	280.85	254.70	36.35	1,267.02	445.69
			25.92		2,230.64	68.18
333.23	961.57	235.24	245.56	43.06	414.98	307.86
1,102.45	5,058.24	150.17	776.38	117.97	5,452.34	1,204.62
2,137.06	7,767.97	787.04	413.67	101.23	3,834.35	1,492.05
252.42	1,890.07	35.83	33.46	1.19	71.44	384.22
767.28	1,556.62					535.11
			11.15	5.18	4,147.61	122.98
					6,207.39	
1,156.00	7,299.00	642.00	797.00	262.00	4,994.00	1,344.00
25,705.30	238,003.28	12,427.20	14,189.61	4,266.72	85,906.74	19,978.00
4,403.64	35,808.13	3,175.56	70.75	991.56	22,211.36	2,354.09
533	3,469	275	265	63	1,464	483
125	453	68	48	19	200	112
10	86	8	6	3	20	10
668	4,008	351	319	85	1,684	605

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Campbell- ville P.V.	Canning- ton 808	Cardinal 1,755	Carleton Place 4,307	Cayuga 704
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,110.68	7,408.47	11,729.88	31,278.83	5,692.40
Commercial light service.....	576.50	3,680.19	3,399.82	14,082.73	5,926.39
Commercial power service.....	388.75	3,701.03	443.93	32,953.70	6,370.86
Municipal power.....				1,565.86	
Street lighting.....	400.00	1,327.50	1,072.25	4,919.94	1,571.74
Merchandise.....					5.96
Miscellaneous.....	133.37	196.83	219.99	2,199.16	156.00
Total earnings.....	3,609.30	16,314.02	16,865.87	87,000.22	19,723.35
EXPENSES					
Cost of power supplied by H-E.P.C.	2,796.06	9,477.70	11,973.53	52,272.82	8,009.11
Substation operation.....				92.92	
Substation maintenance.....					
Distribution system, operation and maintenance.....	93.45	1,496.94	1,076.06	4,014.20	783.48
Line transformer maintenance.....		60.00	78.50	52.73	122.13
Meter maintenance.....		109.82	216.80	1,159.28	309.64
Consumers' premises expenses.....		200.00	25.27	237.23	
Street lighting, operation and main- tenance.....	67.23	287.87	119.28	1,022.96	372.54
Promotion of business.....		18.34		690.00	
Billing and collecting.....	125.00	1,091.34	710.28	3,070.49	1,308.59
General office, salaries and expenses	125.56	480.98	250.09	5,384.36	617.58
Undistributed expenses.....	0.75	94.16	49.85	541.98	275.13
Truck operation and maintenance.....				1,048.82	
Interest.....			154.79	164.49	3.67
Sinking fund and principal payments on debentures.....			1,039.75	2,741.47	
Depreciation.....	130.00	750.00	739.00	3,757.00	769.00
Other reserves.....					
Total operating costs and fixed charges.....	3,338.05	14,067.15	16,433.20	76,250.75	12,570.87
Net surplus.....	271.25	2,246.87	432.67	10,749.47	7,152.48
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	64	288	419	1,209	214
Commercial light service.....	11	75	64	211	76
Power service.....	1	13	3	20	12
Total.....	76	376	486	1,440	302

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Chatham	Chatsworth	Chesley	Chesterville	Chippawa	Clifford	Clinton
19,315	396	1,731	1,157	1,423	461	2,248
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
131,290.02	3,457.74	13,134.04	7,328.57	10,066.48	3,984.27	20,468.78
130,740.13	2,643.44	6,224.80	5,659.02	2,909.11	2,996.89	10,778.43
129,072.77		8,918.55	6,021.16	347.67	824.40	6,022.52
8,733.76		634.03		723.92		1,718.87
25,618.85	667.00	2,122.80	1,130.00	2,896.79	953.86	2,807.96
5,295.79						715.30
3,505.77	44.42	463.98	560.00	235.48	124.68	1,064.31
434,257.09	6,812.60	31,498.20	20,698.75	17,179.45	8,884.10	43,576.17
221,316.90	3,662.60	20,923.65	15,835.35	9,001.93	5,591.30	29,660.09
9,391.97						
13,910.60						113.34
19,968.86	229.27	1,286.52	1,736.39	1,376.14	213.19	2,525.20
4,740.99		27.45	201.39	153.37	34.75	87.92
7,346.28	87.36	333.83	98.84	984.14	287.60	429.05
9,747.19		165.86	58.89	332.15		229.34
7,675.54	90.73	245.63	205.28	827.52	91.80	109.47
10,678.07						
17,339.88		1,024.52	873.77	937.30	371.93	1,330.61
25,732.34	346.79	835.89	567.58	1,020.55	156.24	2,971.75
9,996.24	6.28	82.54	70.97	137.03	23.43	195.49
10,390.32		310.51	122.92	318.62		550.41
3,797.66					182.00	1.55
12,421.42					378.39	
30,178.00	271.00	1,281.00	567.00	1,265.00	332.00	2,984.00
1,000.00						
415,632.26	4,694.03	26,517.40	20,338.38	16,353.75	7,662.63	41,188.22
18,624.83	2,118.57	4,980.80	360.37	825.70	1,221.47	2,387.95
5,193	126	492	307	434	145	698
940	38	93	72	48	40	141
144		25	5	3	2	20
6,277	164	610	384	485	187	859

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Cobden	Cobourg	Colborne	Coldwater	Colling- wood
Population.....	670	6,017	1,033	593	6,799
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,748.96	56,824.20	11,073.77	5,070.35	46,118.89
Commercial light service.....	4,041.90	27,286.68	6,505.31	2,695.95	21,239.12
Commercial power service.....	4,258.04	38,763.27	1,135.43	4,463.78	41,794.69
Municipal power.....		2,620.91	219.15		1,767.46
Street lighting.....	772.00	6,210.55	1,524.00	933.00	4,274.99
Merchandise.....		552.24	1,911.97		6.00
Miscellaneous.....	12.50	1,560.70	171.24	105.00	1,857.66
Total earnings.....	13,833.40	133,818.55	22,540.87	13,268.08	117,058.81
EXPENSES					
Cost of power supplied by H.E.P.C.	8,466.99	78,353.10	9,337.73	4,777.94	78,131.79
Substation operation.....					755.50
Substation maintenance.....					
Distribution system, operation and maintenance.....	393.92	5,672.03	2,070.80	812.08	8,093.00
Line transformer maintenance.....	8.32	560.14	111.07	19.64	671.05
Meter maintenance.....	65.75	1,805.79	258.74	166.05	815.82
Consumers' premises expenses.....		736.56	987.69	298.42	
Street lighting, operation and main- tenance.....	66.02	1,164.01	323.12	181.13	667.41
Promotion of business.....		51.64			
Billing and collecting.....	624.79	6,392.61	1,334.52	644.39	2,999.46
General office, salaries and expenses	130.10	6,309.48	1,183.13	329.73	2,249.30
Undistributed expenses.....		2,340.60	251.38	52.38	558.17
Truck operation and maintenance.....		2,139.83	258.42		1,468.32
Interest.....	25.68	916.33	241.98		
Sinking fund and principal payments on debentures.....	172.77	6,351.35	921.93		
Depreciation.....	308.00	7,147.00	690.00	671.00	4,320.00
Other reserves.....					
Total operating costs and fixed charges.....	10,262.34	119,940.47	17,970.51	7,952.76	100,729.82
Net surplus.....	3,571.06	13,878.08	4,570.36	5,315.32	16,328.99
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	208	1,617	302	170	1,928
Commercial light service.....	63	268	81	52	325
Power service.....	5	61	6	5	62
Total.....	276	1,946	389	227	2,315

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1948

Comber P.V.	Cookstown P.V.	Cottam P.V.	Courtright 385	Creemore 752	Dashwood P.V.	Delaware P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,709.24	3,455.66	3,891.72	2,350.55	5,423.36	3,513.52	3,218.23
2,870.70	1,918.67	2,113.99	977.76	2,780.53	1,740.69	1,334.19
3,549.08	1,456.94	1,033.39		1,387.74	1,495.49	
			580.32			
819.60	855.00	555.00	630.00	768.00	505.98	288.00
342.50	330.24	145.50	247.50	210.00	162.76	170.80
10,291.12	8,016.51	7,739.60	4,786.13	10,569.63	7,418.44	5,011.22
5,502.85	3,892.79	4,039.92	2,887.51	6,216.41	5,013.49	3,021.44
1,504.38	465.89	659.80	82.69	573.63	625.52	
302.45		31.55	209.58			
540.31	84.58	230.75	275.75	202.97	24.57	109.11
				109.46	15.84	21.18
306.63	82.04	101.80	59.93	138.10	152.83	32.25
394.11	323.89	535.72	310.73	462.36	398.61	209.87
559.52	88.99	182.53	49.63	139.16	200.38	96.05
3.26	8.95	6.20	11.09	7.24		9.00
			50.79	1.13		
508.00	516.00	686.00	225.00	379.00	250.00	270.00
9,621.51	5,463.13	6,474.27	4,162.70	8,229.46	6,681.24	3,768.90
669.61	2,553.38	1,265.33	623.43	2,340.17	737.20	1,242.32
153	139	155	122	204	118	82
53	37	32	23	56	26	18
8	4	5	1	3	3	
214	180	192	146	263	147	100

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Delhi	Deseronto	Dorchester	Drayton	Dresden
Population.....	2,330	1,171	P.V.	585	1,935
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	20,388.62	12,875.81	4,124.18	5,201.62	9,850.00
Commercial light service.....	17,783.01	5,125.94	1,355.84	3,601.49	10,338.39
Commercial power service.....	7,054.52	3,441.32	1,200.17	2,001.93	12,863.19
Municipal power.....	378.25	1,311.31			966.75
Street lighting.....	3,384.46	1,716.00	770.00	800.00	2,264.52
Me chandise.....	1,463.89	459.75	20.32		2,629.29
Miscellaneous.....	947.54	172.00	192.00	95.00	258.90
Total earnings.....	51,400.29	25,102.13	7,662.51	11,700.04	39,171.04
EXPENSES					
Cost of power supplied by H-E.P.C.	21,620.26	11,799.60	4,203.88	6,388.23	20,682.65
Substation operation.....		90.00			76.79
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,490.16	1,649.29	250.60	760.41	3,604.74
Line transformer maintenance.....	175.20	98.25		148.22	526.15
Meter maintenance.....	710.45	536.08	184.71	199.19	1,613.57
Consumers' premises expenses.....	768.93		203.44	58.94	151.59
Street lighting, operation and maintenance.....	465.28	350.69	118.45	266.21	1,020.90
Promotion of business.....					42.74
Billing and collecting.....	2,045.33	1,057.53	322.93		1,419.64
General office, salaries and expenses	2,170.27	1,500.65	188.00	947.77	1,850.14
Undistributed expenses.....	1,214.28	242.63	13.55	74.01	225.80
Truck operation and maintenance.....	1,367.92	520.66			1,111.76
Interest.....	2,181.82		6.00	2.59	10.65
Sinking fund and principal payments on debentures.....	3,978.54				
Depreciation.....	2,348.00	741.00	621.00	528.00	1,497.00
Other reserves.....					
Total operating costs and fixed charges.....	41,536.44	18,586.38	6,112.56	9,373.57	33,834.12
Net surplus.....	9,863.85	6,515.75	1,549.95	2,326.47	5,336.92
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	730	441	162	181	560
Commercial light service.....	201	62	32	55	145
Power service.....	18	13	2	7	19
Total.....	949	516	196	243	724

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Drumbo	Dublin	Dundalk	Dundas	Dunnville	Durham	Dutton
P.V.	P.V.	755	5,933	4,398	2,129	818
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,590.66	2,263.88	5,669.79	35,438.68	18,617.48	12,013.45	4,027.08
2,264.72	1,843.30	4,783.72	22,430.31	18,047.05	7,005.10	3,081.98
646.08	1,897.94	3,451.76	44,973.03	22,490.45	6,262.03	4,177.30
596.92	550.00	1,167.35	737.31	2,557.49	904.87	1,035.69
276.37	45.12	351.37	5,908.64	4,183.58	1,546.53	270.00
7,374.75	6,600.24	15,423.99	912.66	1,136.35	403.12	12,592.05
4,292.35	3,922.76	8,195.70	68,320.80	41,874.17	16,622.65	8,032.03
564.66	517.40	1,433.40	744.98	613.48	3,626.10	692.27
9.86			8,405.47	4,536.36	181.45	54.77
216.72	17.00	227.94	625.63	411.71	690.79	405.20
3.31			3,257.40	375.23	598.20	59.23
57.62	89.80	218.55	1,100.67			236.55
263.43	311.45	772.78	1,168.62	1,119.83	404.67	798.35
120.20	180.15	261.04	2,626.90	2,082.18	1,314.40	272.05
1.51	12.35	46.38	3,088.05	2,230.04	1,049.09	32.18
			812.78	267.61	163.79	1.97
			3,639.26	438.87	256.39	
			78.78	116.62		
				808.21		
324.00	351.00	466.00	4,430.00	3,201.00	1,891.00	589.00
5,853.66	5,401.91	11,621.79	98,299.34	58,075.31	26,798.53	11,173.60
1,521.09	1,198.33	3,802.20	12,101.29	8,957.09	1,336.57	1,418.45
110	71	236	1,599	1,178	526	247
39	32	83	227	275	115	70
1	2	8	45	31	18	10
150	105	327	1,871	1,484	659	327

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	East York Twp. V.A.	Elmira	Elmvale	Elmwood
Population.....		2,367	P.V.	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	418,255.89	21,420.62	5,452.39	1,743.11
Commercial light service.....	43,920.85	14,017.67	3,097.36	1,205.33
Commercial power service.....	60,731.09	33,076.41	3,928.58	3,072.19
Municipal power.....	6,185.72	3,368.31	283.25	
Street lighting.....	33,444.06	2,034.92	868.88	593.00
Merchandise.....				
Miscellaneous.....	733.73	1,843.57	147.33	95.50
Total earnings.....	563,271.34	75,761.50	13,777.79	6,709.13
EXPENSES				
Cost of power supplied by H-E.P.C....	319,901.69	45,014.38	6,456.19	3,229.02
Substation operation.....				
Substation maintenance.....	4,352.70	923.78		
Distribution system, operation and maintenance.....	18,123.29	2,563.16	1,289.20	190.98
Line transformer maintenance.....	3,020.76	167.10	46.35	
Meter maintenance.....	8,981.03	1,605.96	189.63	113.80
Consumers' premises expenses.....	12,071.18	223.99	83.07	
Street lighting, operation and main- tenance.....	6,238.57	378.92	200.86	11.80
Promotion of business.....	3,574.86	272.79		
Billing and collecting.....	24,633.38	1,714.97	508.75	
General office, salaries and expenses.....	18,951.99	2,245.66	320.71	324.94
Undistributed expenses.....	2,784.32	761.09	52.11	
Truck operation and maintenance.....		655.80		
Interest.....	1,075.04	163.90		
Sinking fund and principal payments on debentures.....		1,039.75		
Depreciation.....	31,891.00	2,796.00	932.00	251.00
Other reserves.....				
Total operating costs and fixed charges.....	455,599.81	60,527.25	10,078.87	4,121.54
Net surplus.....	107,671.53	15,234.25	3,698.92	2,587.59
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	13,969	650	218	94
Commercial light service.....	524	140	56	21
Power service.....	71	31	8	2
Total.....	14,564	821	282	117

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Elora	Embro	Erieau	Erie Beach	Essex	Etobicoke Twp. V.A.	Exeter
1,293	462	297	50	2,214		1,980
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,331.14	5,695.08	6,874.91	1,998.71	12,106.87	383,666.80	26,195.13
5,845.29	1,405.43	3,153.89	355.53	12,165.84	67,238.84	13,983.86
8,411.19	2,068.51	5,394.90		8,663.91	105,148.67	6,681.54
				1,531.65	12,376.87	770.18
1,758.18	648.00	597.00	172.50	2,394.99	20,348.93	2,831.84
93.84						1,008.07
595.08	87.50	30.00	30.00	1,320.92	1,868.50	1,568.35
28,034.72	9,904.52	16,050.70	2,556.74	38,184.18	590,648.61	53,038.97
18,608.83	5,746.85	7,819.74	1,261.77	19,386.65	357,279.90	30,289.63
					237.84	
2,224.73	754.79	388.70	94.89	3,946.47	18,810.94	3,160.78
144.52	104.66	138.79	35.47	623.13	6,417.14	230.79
186.28	181.46	168.47	17.65	1,595.63	5,641.86	251.76
16.85	117.25	11.35	1.71	19.91	13,064.75	826.35
413.82	361.17	52.61	17.29	693.00	2,744.75	989.44
1,250.57	552.07	599.29	188.56	1,761.19	27,958.17	2,480.33
658.07	136.03	504.94	181.86	3,177.79	20,825.48	3,390.36
301.08	2.12	3.15	.50	742.03		75.95
449.50				376.54		760.63
12.21	2.60		24.25	488.79	6,206.77	
				1,064.24	8,432.06	
1,063.00	489.00	865.00	153.00	3,337.00	27,208.00	2,806.00
25,329.46	8,448.00	10,552.04	1,976.95	37,212.37	494,827.66	45,262.02
2,705.26	1,456.52	5,498.66	579.79	971.81	95,820.95	7,776.95
390	147	247	98	645	9,540	709
70	34	29	5	141	619	152
6	4	4		21	109	22
466	185	280	103	807	10,268	883

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Fergus	Finch	Flesherton	Fonthill	Forest
Population.....	3,051	372	468	1,148	1,709
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	26,451.67	3,723.26	3,183.89	10,581.17	18,644.60
Commercial light service.....	10,538.47	2,670.12	2,475.89	2,974.92	10,629.45
Commercial power service.....	22,427.40	1,346.97	1,262.93	992.78	5,481.61
Municipal power.....	1,150.19			186.82	1,308.80
Street lighting.....	2,299.71	507.00	667.50	1,676.25	2,766.23
Merchandise.....	27.17				135.92
Miscellaneous.....	600.00	174.50	339.98	74.84	1,077.00
Total earnings.....	63,494.61	8,421.85	7,930.19	16,486.78	40,043.61
EXPENSES					
Cost of power supplied by H-E.P.C.....	44,440.08	4,462.11	3,898.26	8,250.08	23,905.93
Substation operation.....	13.57				
Substation maintenance.....					
Distribution system, operation and maintenance.....	4,878.43	87.80	546.48	1,936.75	5,374.75
Line transformer maintenance.....	346.66	69.75		19.79	35.50
Meter maintenance.....	579.53	39.98	91.02	327.12	283.23
Consumers' premises expenses.....	26.16	5.90		263.79	812.24
Street lighting, operation and maintenance.....	913.77	128.66	127.48	209.95	588.96
Promotion of business.....					15.20
Billing and collecting.....	1,562.46	315.20		911.83	1,379.87
General office, salaries and expenses.....	1,868.15	222.45	616.80	722.04	2,590.42
Undistributed expenses.....	205.08			17.52	327.39
Truck operation and maintenance.....	1,092.10				236.70
Interest.....		7.30			
Sinking fund and principal payments on debentures.....					
Depreciation.....	3,465.00	484.00	331.00	1,062.00	1,584.00
Other reserves.....					
Total operating costs and fixed charges.....	59,390.99	5,823.15	5,611.04	13,720.87	37,134.19
Net surplus.....	4,103.62	2,598.70	2,319.15	2,765.91	2,909.42
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	830	133	144	346	568
Commercial light service.....	128	37	51	44	136
Power service.....	17	3	2	6	21
Total.....	975	173	197	396	725

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Forest Hill	Galt	Georgetown	Glencoe	Goderich	Grand Valley
15,500	16,741	3,080	881	4,488	661
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
244,907.79	144,517.31	37,245.55	5,637.88	48,633.42	4,903.61
41,072.07	75,476.20	14,169.86	6,558.45	24,261.82	3,144.44
4,795.06	188,193.89	56,794.98	2,874.96	20,724.14	2,806.05
488.11	4,551.18	890.55	1,232.70	3,151.43	
11,465.10	20,017.00	3,180.29	1,936.61	5,182.10	932.00
	15,475.72		507.11		
7,523.32	4,404.38	727.94	832.37	1,793.19	330.00
310,251.45	452,635.68	113,009.17	19,580.08	103,746.10	12,116.10
176,744.64	302,679.15	76,038.45	9,869.74	66,130.18	7,373.01
	8,707.05			2,727.58	
569.22	3,630.19	238.70			
11,301.71	9,466.91	4,610.77	1,732.90	8,895.17	905.98
237.04	1,145.18	850.00	100.76	444.15	
2,491.14	5,159.83	987.12	707.47	1,100.47	161.87
13,332.24	1,610.36	203.04	94.80	1,384.51	
1,212.97	2,642.02	1,549.15	167.40	1,173.84	114.43
	225.91			4.33	
7,867.53	5,732.49	4,346.98	778.91	5,016.02	727.19
12,175.60	16,321.37	3,821.63	1,016.66	4,507.36	239.37
537.22	8,497.38		92.16	560.46	19.39
4,019.47	2,080.63		356.45	1,966.60	
6,795.63			1.88	656.76	1.30
19,156.96				2,332.32	
10,957.00	24,969.00	4,266.00	1,029.00	5,741.00	639.00
	616.52				
267,398.37	393,483.99	96,911.84	15,948.13	102,640.75	10,181.54
42,853.08	59,151.69	16,097.33	3,631.95	1,105.35	1,934.56
4,163	4,936	1,085	265	1,531	209
353	588	161	89	296	56
37	147	31	12	36	9
4,553	5,671	1,277	366	1,863	274

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Granton	Gravenhurst	Grimsby	Guelph
Population.....	P.V.	2,731	2,414	25,077
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,582.03	19,920.28	22,681.80	169,093.21
Commercial light service.....	1,394.07	12,667.05	17,192.73	69,735.81
Commercial power service.....	207.76	19,824.23	12,178.69	172,340.92
Municipal power.....		961.16	2,405.07	17,082.14
Street lighting.....	339.45	2,052.00	3,527.34	22,072.04
Merchandise.....		40.02	61.78	910.70
Miscellaneous.....	183.36	718.56	90.68	1,852.51
Total earnings.....	4,706.67	56,183.30	58,138.09	453,087.33
EXPENSES				
Cost of power supplied by H-E.P.C.....	2,789.53	35,159.15	26,720.73	325,595.92
Substation operation.....				
Substation maintenance.....		172.00		3,728.22
Distribution system, operation and maintenance.....	340.80	5,226.29	1,111.14	16,336.90
Line transformer maintenance.....		500.08		675.07
Meter maintenance.....	150.77	556.53	2,084.40	5,909.86
Consumers' premises expenses.....	11.72	418.26	332.32	1,701.30
Street lighting, operation and maintenance.....	128.28	304.81	474.44	2,983.47
Promotion of business.....				204.65
Billing and collecting.....	461.77	1,851.21	4,112.67	9,998.54
General office, salaries and expenses.....	122.07	1,771.82	1,640.08	16,093.25
Undistributed expenses.....	1.06	290.71	37.60	607.54
Truck operation and maintenance.....		757.53		
Interest.....	5.80			
Sinking fund and principal payments on debentures.....				
Depreciation.....	240.00	2,190.00	2,427.00	29,588.00
Other reserves.....				
Total operating costs and fixed charges.....	4,251.80	49,198.39	38,940.38	413,422.72
Net surplus.....	454.87	6,984.91	19,197.71	39,664.61
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	90	885	741	6,413
Commercial light service.....	30	131	148	796
Power service.....	1	21	19	169
Total.....	121	1,037	908	7,378

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1948

Hagers- ville 1,604	Hamilton 179,565	Hanover 3,535	Harriston 1,545	Harrow 1,304	Hastings 800	Havelock 1,156
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,477.66	1,112,910.97	32,611.63	11,575.45	17,939.42	7,253.85	6,948.96
8,665.28	613,928.18	11,661.65	8,439.72	9,633.04	4,750.12	3,518.10
23,175.64	3,051,263.65	30,423.20	11,476.62	5,611.29	209.94	1,927.45
.....	99,917.34	284.74	438.32	.....	.....	.....
2,240.41	133,661.55	2,265.82	1,519.25	1,386.06	1,580.04	1,569.00
.....	21,146.04	.....	229.98	234.23	.....	.....
1,131.95	173,398.79	2,304.73	373.03	294.25	187.50	460.00
44,690.94	5,206,226.52	79,551.77	34,052.37	35,098.29	13,981.45	14,423.51
29,114.95	*3,659,871.34	44,929.59	21,137.46	23,059.08	5,526.64	7,922.77
.....	110,917.90	.....	.....	.....	.....	.....
.....	22,807.51	.....	.....	.....	.....	.....
4,912.56	72,025.31	5,654.29	1,913.28	1,910.77	555.66	720.14
240.55	13,649.64	345.50	164.86	10.06	.....	.....
603.73	52,341.95	740.79	258.30	256.89	525.13	452.14
.72	43,993.77	39.51	389.44	104.41	.....	.....
524.55	29,145.43	387.25	239.91	269.30	443.22	502.97
.....	27,818.71	.....	.....	4.00	.....	.....
1,467.84	143,444.92	2,225.89	1,792.37	1,809.15	672.74	1,106.50
1,216.42	95,187.57	2,082.12	628.19	140.34	428.75	550.66
531.28	15,792.58	250.12	79.22	7.20	2.86	.....
262.54	.....	2,579.73	739.77	.....	.....	.....
.....	8,887.50	.....	28.65	4.50	338.78	.....
.....	171,333.33	.....	573.17	.....	1,418.49	.....
1,210.00	213,450.69	3,749.00	1,052.00	1,825.00	955.00	805.00
40,085.14	4,680,668.15	62,983.79	28,996.62	29,400.70	10,867.27	12,060.18
4,605.80	525,558.37	16,567.98	5,055.75	5,697.59	3,114.18	2,363.33
463	46,717	973	408	407	301	329
140	6,129	159	110	109	66	61
18	1,202	30	17	8	3	2
621	54,048	1,162	535	524	370	392

*Includes 1948 Adjustment.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Hensall	Hespeler	Highgate	Holstein	Humber- stone
Population.....	697	3,527	342	P.V.	3,300
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	6,892.09	25,663.96	2,266.92	1,426.30	16,069.41
Commercial light service.....	3,511.92	10,658.83	1,083.11	564.81	8,416.28
Commercial power service.....	5,616.57	77,409.63	1,884.36	885.63	7,317.39
Municipal power.....		1,610.24			
Street lighting.....	1,008.00	3,650.00	498.20	75.00	1,795.95
Merchandise.....					
Miscellaneous.....	375.00	2,218.31	248.20	157.50	269.47
Total earnings.....	17,403.58	121,210.97	5,980.79	3,109.24	33,868.50
EXPENSES					
Cost of power supplied by H.E.P.C.	11,370.41	81,898.09	3,085.05	1,698.43	17,321.73
Substation operation.....		550.83			
Substation maintenance.....					
Distribution system, operation and maintenance.....	706.41	6,064.95	560.14	94.22	2,569.42
Line transformer maintenance.....	176.49	267.16	105.04		192.98
Meter maintenance.....	84.25	708.76	111.74		288.33
Consumers' premises expenses.....			5.07		
Street lighting, operation and main- tenance.....	195.89	237.01	120.01	50.00	480.57
Promotion of business.....					
Billing and collecting.....	517.05	1,736.81	303.13		1,814.14
General office, salaries and expenses	342.45	1,910.33	175.60	292.94	1,916.75
Undistributed expenses.....	63.51	1,100.40	6.35		141.87
Truck operation and maintenance.....		1,460.73			1,004.67
Interest.....	18.35	274.15	10.50		
Sinking fund and principal payments on debentures.....		1,732.91			
Depreciation.....	728.00	4,204.00	393.00	131.00	2,206.00
Other reserves.....					
Total operating costs and fixed charges.....	14,202.81	102,146.13	4,875.63	2,266.59	27,936.46
Net surplus.....	3,200.77	19,064.84	1,105.16	842.65	5,932.04
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	227	936	114	69	869
Commercial light service.....	60	102	31	17	116
Power service.....	18	37	7	2	15
Total.....	305	1,075	152	88	1,000

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville	Kincardine
3,177	6,140	1,009	569	1,412	2,630
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
24,587.80	45,279.56	10,412.46	3,542.71	12,516.94	21,888.66
19,503.05	24,623.02	4,129.54	3,113.25	7,534.05	11,626.20
15,779.25	51,746.01	984.35	3,725.96	5,326.91	15,670.84
1,422.40	3,523.08	911.94			1,348.64
2,810.00	4,996.54	1,212.06	858.00	1,824.75	4,500.94
61.86	34.37	100.95		201.25	63.84
1,466.14	1,080.00	150.00	407.84	823.40	589.81
65,630.50	131,282.58	17,901.30	11,647.76	28,227.30	55,688.93
40,434.85	90,101.10	8,863.77	7,081.74	15,367.14	30,381.65
835.27	358.81				1,373.19
4,765.57	4,945.64	1,551.88	250.72	3,462.39	1,588.20
315.75	447.09	222.87	54.59	165.76	104.10
868.42	3,474.20	319.72	28.10	353.80	713.33
	1,595.59			173.96	1,840.90
728.40	1,829.33	255.48	45.87	212.43	926.42
2,266.27	3,626.55	1,356.34	719.44	1,318.28	1,476.62
2,267.47	6,428.34	965.68	122.87	931.21	1,568.62
784.36	1,826.15	54.23	7.55	208.70	268.22
542.67	2,362.71	497.17		606.85	999.65
47.16	421.20		0.84	68.00	
1,479.00	6,070.00	575.00	472.00	1,015.00	3,552.00
55,335.19	123,486.71	14,662.14	8,783.72	23,883.52	44,792.90
10,295.31	7,795.87	3,239.16	2,864.04	4,343.78	10,896.03
798	1,974	339	173	440	842
152	263	62	45	83	144
22	53	6	4	7	20
972	2,290	407	222	530	1,006

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Kingston	Kingsville	Kirkfield	Kitchener
Population.....	31,596	2,431	P.V.	39,722
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	280,907.27	19,571.24	1,058.82	318,526.17
Commercial light service.....	158,636.89	13,829.72	1,468.11	162,012.61
Commercial power service.....	181,629.21	5,146.92		545,355.26
Municipal power.....	18,740.02	954.01		41,342.99
Street lighting.....	22,981.35	2,834.54	432.00	37,558.24
Merchandise.....				
Miscellaneous.....	15,159.02	1,780.99	90.00	2,566.21
Total earnings.....	678,053.76	44,117.42	3,048.93	1,107,361.48
EXPENSES				
Cost of power supplied by H-E.P.C....	435,484.91	22,356.66	1,722.49	730,621.65
Substation operation.....	15,109.56			14,152.57
Substation maintenance.....	1,568.03			8,775.01
Distribution system, operation and maintenance.....	25,768.75	2,882.93	246.47	29,282.87
Line transformer maintenance.....	1,833.43	468.49		3,657.00
Meter maintenance.....	8,193.59	967.46	117.50	13,990.72
Consumers' premises expenses.....	522.93	17.86		2,540.12
Street lighting, operation and maintenance.....	7,171.72	621.92	29.14	9,895.27
Promotion of business.....	1,447.94	5.00		1,558.91
Billing and collecting.....	20,210.05	2,429.60	244.63	20,427.66
General office, salaries and expenses.....	36,418.78	2,424.89	13.33	29,862.23
Undistributed expenses.....	28,778.83	876.95		910.59
Truck operation and maintenance.....	9,329.94	593.44		
Interest.....	108.12	854.65	0.47	2,026.05
Sinking fund and principal payments on debentures.....	3,604.00	1,618.58		24,100.00
Depreciation.....	29,777.50	1,975.00	223.00	65,611.00
Other reserves.....	9,207.31			
Total operating costs and fixed charges.....	634,535.39	38,093.43	2,597.03	957,411.65
Net surplus.....	43,518.37	6,023.99	451.90	149,949.83
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	9,223	720	41	10,006
Commercial light service.....	1,184	186	19	1,241
Power service.....	202	24		337
Total.....	10,609	930	60	11,584

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Lakefield	Lambeth	Lanark	Lancaster	LaSalle	Leamington	Lindsay
1,634	P.V.	737	554	1,400	6,524	8,497
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,773.18	5,284.96	5,391.51	2,577.13	15,814.22	40,799.73	76,318.01
8,344.79	1,417.24	3,834.07	1,742.66	3,444.72	26,640.23	46,811.49
7,273.97	610.82	1,374.75		820.60	33,922.75	45,107.28
	502.37				2,311.12	2,997.41
1,846.01	763.00	574.00	500.33	804.00	8,113.62	7,312.21
						310.52
818.75	40.95		51.26		591.20	1,155.33
30,056.70	8,619.34	11,174.33	4,871.38	20,883.54	112,378.65	180,012.25
14,833.44	5,398.55	5,872.65	2,844.17	13,553.89	75,314.11	115,023.08
					902.10	
1,569.47	314.26	384.12	192.45	1,045.79	2,175.12	4,503.92
216.21	15.46	12.63		200.65	624.91	742.45
	11.78	66.06	65.06	558.25	926.94	1,636.19
	8.58			144.25	6.96	2,051.97
322.36	105.14	144.69	28.07	200.62	2,497.29	1,154.22
					165.60	677.44
1,290.73	434.23	415.46	281.75	1,115.15	5,219.39	6,662.15
1,300.27	67.23	213.56	210.87	710.18	5,832.10	10,548.81
245.24	9.78			70.49	1,239.48	4,438.75
344.24					2,303.67	2,158.10
441.63	30.44			414.79		275.02
2,123.73						9,934.81
1,154.00	673.00	534.00	446.00	1,677.00	7,129.00	8,682.00
					100.00	
23,841.32	7,068.45	7,643.17	4,068.37	19,691.06	104,436.67	168,488.91
6,215.38	1,550.89	3,531.16	803.01	1,192.48	7,941.98	11,523.34
447	174	218	132	374	1,991	2,527
88	29	46	35	22	364	435
12	6	3		3	48	77
547	209	267	167	399	2,403	3,039

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Listowel	London	London Twp. V.A.	Long Branch	Lucan
Population.....	3,095	87,319		6,286	715
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	27,387.08	691,004.84	21,062.58	52,770.69	7,698.10
Commercial light service.....	16,680.84	277,840.62	2,978.28	13,453.55	3,210.96
Commercial power service.....	20,653.68	514,405.25	1,715.82	29,063.01	1,249.64
Municipal power.....	1,049.28	98,093.05		2,298.19	
Street lighting.....	4,833.99	50,002.06	1,335.50	7,170.00	1,505.10
Merchandise.....	8.15	13,788.74			
Miscellaneous.....	725.47	60,556.17	195.40	1,713.07	348.89
Total earnings.....	71,338.49	1,705,690.73	27,287.58	106,468.51	14,012.69
EXPENSES					
Cost of power supplied by H.E.P.C.	50,566.57	1,010,369.31	16,575.69	60,234.86	8,610.30
Substation operation.....	857.21	59,907.59			
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,809.99	31,106.33	696.63	3,565.76	599.53
Line transformer maintenance.....	344.07	8,514.01	266.49	711.43	95.84
Meter maintenance.....	998.59	47,426.17	224.85	1,076.68	395.42
Consumers' premises expenses.....	117.49	82,336.78	506.10	199.47	558.64
Street lighting, operation and main- tenance.....	770.52	13,116.91	193.48	1,019.75	333.87
Promotion of business.....		3,959.22			
Billing and collecting.....	2,374.04	40,913.24	1,661.09	6,466.06	755.80
General office, salaries and expenses	2,194.20	59,313.28	727.30	5,315.83	564.40
Undistributed expenses.....	332.77	4,073.28	15.91	21.32	74.97
Truck operation and maintenance....	636.20	1,200.76			
Interest.....		6,593.44	8.34		21.52
Sinking fund and principal payments on debentures.....					
Depreciation.....	3,168.00	99,627.81	1,003.00	4,564.00	651.00
Other reserves.....		115,342.17			
Total operating costs and fixed charges.....	65,169.65	1,583,800.30	21,878.88	83,175.16	12,661.29
Net surplus.....	6,168.84	121,890.43	5,408.70	23,293.35	1,351.40
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	955	22,656	614	1,986	237
Commercial light service.....	187	2,676	18	202	54
Power service.....	33	478	4	23	4
Total.....	1,175	25,810	636	2,211	295

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Lucknow 951	Lynden P.V.	Madoc 1,138	Markdale 830	Markham 1,283	Marmora 1,093	Martintown P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,948.96	4,118.60	8,541.58	5,503.95	12,590.69	7,067.07	1,697.32
4,288.23	832.81	6,250.17	4,074.39	5,981.09	3,285.23	1,636.71
15,381.21	1,380.56	3,849.63	3,059.94	3,525.11	625.64	126.16
497.18			236.64	393.11		
1,729.36	467.87	1,872.00	959.00	1,537.50	1,298.00	188.83
					148.26	
390.14	137.60	201.41	331.03	478.19	256.01	79.03
30,235.08	6,937.44	20,714.79	14,164.95	24,505.69	12,680.21	3,728.05
15,105.41	4,687.45	12,810.34	7,599.42	12,916.68	6,102.18	1,932.07
1,788.32	107.57	2,383.09	749.66	1,059.20	1,478.01	221.98
	3.30	67.29		76.32		
242.04	10.14	141.79	236.12	258.06	334.72	33.35
	66.35		861.84			
336.29	86.86	487.05	489.46	97.03	295.07	67.17
1,278.61	251.48	947.81		1,223.45	1,077.76	336.69
1,265.36	260.46	564.16	931.04	450.19	726.59	74.88
82.13		5.00	9.55	64.78	115.75	
450.12						
1,209.00	305.00	817.00	632.00	1,424.00	837.00	125.00
21,757.28	5,778.61	18,223.53	11,509.09	17,569.71	10,967.08	2,791.14
8,477.80	1,158.83	2,491.26	2,655.86	6,935.98	1,713.13	936.91
360	114	349	242	393	287	72
109	14	104	78	81	45	28
12	3	6	10	13	1	1
481	131	459	330	487	333	101

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Maxville	Meaford	Merlin	Merritton	Midland
Population.....	815	2,858	P.V.	3,716	6,887
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,754.19	21,720.13	2,735.19	25,383.14	51,213.54
Commercial light service.....	3,052.61	13,977.75	2,469.24	6,794.35	25,404.53
Commercial power service.....		15,205.47	1,627.35	222,545.08	77,099.50
Municipal power.....		1,040.04		1,821.30	2,718.99
Street lighting.....	1,070.25	3,407.76	819.00	4,324.00	6,299.71
Merchandise.....		3.57	44.34		3,445.19
Miscellaneous.....	277.15	785.46	427.55	3,541.18	3,110.66
Total earnings.....	9,154.20	56,140.18	8,122.67	264,409.05	169,292.12
EXPENSES					
Cost of power supplied by H.E.P.C.	5,331.83	30,263.03	3,788.63	215,427.09	99,487.35
Substation operation.....				718.90	4,012.81
Substation maintenance.....					405.94
Distribution system, operation and maintenance.....	710.87	3,694.86	1,173.69	6,645.43	5,734.54
Line transformer maintenance.....	84.35	410.48	9.50	583.94	954.11
Meter maintenance.....	301.00	877.19	35.89	1,136.36	1,324.10
Consumers' premises expenses.....	8.40	385.34	305.09		711.12
Street lighting, operation and maintenance.....	287.63	603.73	82.61	933.88	1,237.04
Promotion of business.....					39.50
Billing and collecting.....	403.75	1,552.83	482.11	3,394.48	2,297.37
General office, salaries and expenses	98.60	1,184.98	441.41	3,459.30	2,537.53
Undistributed expenses.....	7.95	595.68	1.87	1,917.15	2,131.63
Truck operation and maintenance.....		480.57		1,610.64	770.56
Interest.....	6.78	9.20			
Sinking fund and principal payments on debentures.....					
Depreciation.....	455.00	2,651.00	488.00	5,713.00	10,504.00
Other reserves.....					
Total operating costs and fixed charges.....	7,696.16	42,708.89	6,808.80	241,540.17	132,147.60
Net surplus.....	1,458.04	13,431.29	1,313.87	22,868.88	37,144.52
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	200	851	147	1,108	1,926
Commercial light service.....	50	190	61	74	241
Power service.....		26	3	23	65
Total.....	250	1,067	211	1,205	2,232

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Mildmay	Millbrook	Milton	Milverton	Mimico	Mitchell	Moorefield
743	727	2,218	1,027	9,894	1,863	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,015.23	7,297.25	20,397.98	8,196.88	86,442.94	20,030.90	1,742.17
4,084.70	3,269.24	10,018.67	5,859.96	18,347.11	9,948.30	1,699.48
2,187.00	1,825.75	34,974.83	5,932.27	12,297.39	9,418.61	1,571.67
142.54			659.44	7,279.51	1,087.98	
637.20	827.27	2,357.45	1,017.80	8,676.52	2,660.12	350.00
2.36		542.78	55.15		3,317.78	
344.40	115.87	1,564.45	238.82	1,463.97	1,543.76	15.00
13,413.43	13,335.38	69,856.16	21,960.32	134,507.44	48,007.45	5,378.32
6,679.90	6,108.00	46,407.03	15,449.91	75,565.70	29,377.02	3,160.53
847.54		240.00		325.80	1,386.74	
	1,084.23	4,495.31	1,102.26	12,714.03	2,670.15	167.39
	205.00	14.80	54.00	289.15	58.31	
200.63	353.47	544.47	112.49	1,515.23	1,301.71	49.15
30.38		395.01		1,403.21	1,237.32	
234.09	333.49	732.94	189.49	2,135.16	839.75	6.03
	767.11	1,520.52	1,048.90	3,580.52	1,441.93	
816.68	634.27	2,071.30	719.72	4,020.16	1,661.30	226.68
	2.65	226.37	38.12	2,167.19	1,554.71	5.00
		1,219.02	424.17	1,357.37	731.70	
196.05			31.73		209.33	
848.73						
633.00	343.00	3,468.00	1,144.00	5,895.00	2,661.00	202.00
10,487.00	9,831.22	61,334.77	20,314.79	110,968.52	45,130.97	3,816.78
2,926.43	3,504.16	8,521.39	1,645.53	23,538.92	2,876.48	1,561.54
220	220	651	295	2,607	585	72
64	70	120	84	141	141	33
6	5	20	13	36	29	1
290	295	791	392	2,784	755	106

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Morris- burg 1,768	Mount Brydges P.V.	Mount Forest 1,807	Napanee 3,512	Neustadt 447
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	14,616.07	3,380.36	14,747.84	35,672.19	2,940.38
Commercial light service.....	10,478.20	1,420.83	11,609.19	26,650.10	1,506.35
Commercial power service.....	5,727.55	1,315.80	7,894.83	14,664.93	963.52
Municipal power.....	1,061.48		1,048.44	751.28	
Street lighting.....	2,700.84	839.50	2,140.44	4,110.12	651.12
Merchandise.....			1.18	1,749.64	
Miscellaneous.....	384.14	400.00	488.31	384.75	408.51
Total earnings.....	34,968.28	7,356.49	37,930.23	83,983.01	6,469.88
EXPENSES					
Cost of power supplied by H-E.P.C.	15,162.85	4,027.94	24,102.25	44,800.23	2,887.89
Substation operation.....	2,916.01				
Substation maintenance.....	1,588.14				
Distribution system, operation and maintenance.....	3,104.66	401.16	3,230.38	4,750.04	316.23
Line transformer maintenance.....	191.60		18.09	338.29	
Meter maintenance.....	375.87	413.63	384.63	1,294.32	123.84
Consumers' premises expenses.....	19.97	20.08		1,650.50	
Street lighting, operation and main- tenance.....	627.02	77.56	462.04	929.12	37.54
Promotion of business.....				178.47	
Billing and collecting.....	1,823.17	545.39	1,018.81	3,383.11	451.33
General office, salaries and expenses	951.00	55.16	356.79	8,718.14	255.43
Undistributed expenses.....	150.53	1.59	176.25	4,592.62	22.31
Truck operation and maintenance.....	565.78		186.54	830.37	
Interest.....	55.56			488.10	
Sinking fund and principal payments on debentures.....	1,100.95				
Depreciation.....	1,119.00	368.00	1,347.00	3,482.00	535.00
Other reserves.....					
Total operating costs and fixed charges.....	29,752.11	5,910.51	31,282.78	75,435.31	4,629.57
Net surplus.....	5,216.17	1,445.98	6,647.45	8,547.70	1,840.31
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	497	192	545	1,026	143
Commercial light service.....	146	45	155	242	28
Power service.....	27	5	18	29	4
Total.....	670	242	718	1,297	175

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Newbury 277	Newcastle 760	New Hamburg 1,530	Newmarket 4,264	New Toronto 8,729	Niagara Falls 21,304
S c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,118.65	7,529.44	14,435.34	41,790.50	64,891.63	142,748.35
1,400.88	2,891.88	7,336.19	22,506.85	26,101.96	87,476.12
288.29	4,883.15	10,657.40	26,375.06	249,546.48	110,987.55
707.00	1,149.83	2,116.56	2,233.88	12,747.49	15,410.44
197.18	267.86	544.43	5,922.21	7,128.51	30,295.51
4,712.00	16,722.16	35,393.40	98,828.50	5,744.22	5,226.27
2,332.86	7,886.47	23,779.15	60,481.86	291,878.88	220,402.01
		293.40	367.60		14,864.10
276.63	899.78	2,122.59	3,586.81	14,164.91	16,858.55
2.00	80.50	253.20	648.33	237.89	716.28
33.20	189.57	599.11	879.67	2,982.75	7,527.70
	597.77	453.26		148.76	11,189.42
97.33	305.16	475.62	1,254.63	1,907.62	6,869.26
	81.30				
118.00	645.40	1,258.91	2,931.59	5,785.80	15,482.15
246.95	691.70	1,520.19	3,803.00	13,230.53	20,121.87
10.72	190.41	453.06	283.12		9,704.35
	410.71	304.30	476.98		3,782.41
		6.33	110.60		819.45
			1,000.00		5,198.74
319.00	675.00	2,060.00	2,710.00	5,940.00	22,828.00
3,436.69	12,653.77	33,579.12	78,534.19	336,277.14	356,364.29
1,275.31	4,068.39	1,814.28	20,294.31	29,883.15	35,779.95
90	256	432	1,295	2,246	5,471
24	41	114	209	273	865
1	9	15	40	53	128
115	306	561	1,544	2,572	6,464

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Niagara-on-the-Lake 1,781	North York Twp. V.A.	Norwich 1,300	Norwood 840	Oil Springs 426
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	26,171.41	425,595.19	13,230.10	7,555.84	2,853.85
Commercial light service.....	8,753.22	63,574.49	6,975.35	4,498.11	1,666.84
Commercial power service.....	1,787.48	111,243.64	1,665.19	3,067.45	5,534.66
Municipal power.....	876.28	10,129.56	508.57		
Street lighting.....	3,904.44	25,768.62	1,959.22	1,542.00	624.04
Merchandise.....	1,939.41		1,441.47		134.55
Miscellaneous.....	150.00		301.24	623.33	591.38
Total earnings.....	43,582.24	636,311.50	26,081.14	17,286.73	11,405.32
EXPENSES					
Cost of power supplied by H-E.P.C.	21,821.78	405,679.93	14,898.09	6,882.76	6,311.64
Substation operation.....	181.33	1,745.33			
Substation maintenance.....	56.17				
Distribution system, operation and maintenance.....	1,958.51	35,234.24	4,000.37	561.24	369.04
Line transformer maintenance.....	291.00	7,827.08	111.25		12.96
Meter maintenance.....	840.04	9,724.79	316.50	373.45	407.94
Consumers' premises expenses.....	102.64	4,051.15	602.24		3.84
Street lighting, operation and main- tenance.....	858.34	3,141.03	394.12	472.28	46.99
Promotion of business.....	14.00				
Billing and collecting.....	1,413.15	26,278.58	1,168.09	802.49	519.59
General office, salaries and expenses	1,900.63	17,501.87	1,309.82	337.45	250.88
Undistributed expenses.....	1,373.09		160.67		79.96
Truck operation and maintenance.....	915.44		107.92		
Interest.....	470.04	11,810.50		385.67	
Sinking fund and principal payments on debentures.....	2,703.64	32,863.50		2,019.01	
Depreciation.....	3,482.00	37,786.00	789.00	984.00	843.00
Other reserves.....					
Total operating costs and fixed charges.....	38,381.80	593,644.00	23,858.07	12,818.35	8,845.84
Net surplus.....	5,200.44	42,667.50	2,223.07	4,468.38	2,559.48
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	725	11,960	427	256	124
Commercial light service.....	109	733	95	71	40
Power service.....	14	120	9	4	33
Total.....	848	12,813	531	331	197

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Omamee 608	Orangeville 2,840	Orono P.V.	Oshawa 27,924	Ottawa 164,266	Otterville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,341.69	25,461.32	6,950.82	299,565.24	763,944.33	4,604.41
1,074.36	18,207.53	2,522.42	100,678.76	348,027.47	2,957.10
5,206.21	7,325.37	158.26	390,189.50	81,118.69	623.35
.....	1,036.01	.....	11,015.06	33,862.17	92.96
871.36	3,833.26	1,063.75	20,027.79	86,729.79	923.00
.....	18.91	.....	.....	.....	.....
208.62	644.56	150.00	32,185.49	16,546.46	266.14
12,702.24	56,526.96	10,845.25	853,661.84	1,330,228.91	9,466.96
.....
6,913.45	31,682.02	4,121.53	527,727.13	742,166.31	4,966.27
.....	.....	.....	2,507.84	42,474.88	.....
.....	.....	.....	14.49	1,901.61	.....
1,458.72	2,169.71	591.80	32,806.09	45,060.52	501.71
69.22	99.61	12.92	893.29	5,576.66	32.48
222.64	554.00	121.60	6,008.84	16,246.44	107.57
.....	61.00	.....	10,239.26	5,035.47	73.81
320.35	503.96	122.25	3,474.59	39,259.79	116.53
.....	.....	.....	2,890.76	5,693.06	.....
624.63	2,260.38	733.25	19,807.04	56,909.23	398.61
248.86	958.68	727.79	24,206.81	36,523.49	367.29
90.91	168.80	66.07	11,166.13	24,138.97	6.66
.....	638.34	.....	3,540.59	7,526.17	.....
.....	.....	.....	.....	4,240.68	.....
.....	.....	.....	.....	14,740.70	.....
767.00	3,256.00	373.00	25,852.00	149,964.00	497.00
.....	.....	.....	401.00	13,039.53	.....
10,715.78	42,352.50	6,870.21	671,535.86	1,210,497.51	7,067.93
1,986.46	14,174.46	3,975.04	182,125.98	119,731.40	2,399.03
.....
.....
204	838	207	7,650	16,849	179
25	250	46	828	1,703	62
8	33	4	135	221	9
237	1,121	257	8,613	18,773	250

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Owen Sound 15,782	Paisley 730	Palmerston 1,497	Paris 5,035	Parkhill 970
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	124,309.44	6,184.03	15,705.40	34,546.16	9,447.95
Commercial light service.....	68,110.26	3,921.79	7,526.63	12,286.72	5,900.02
Commercial power service.....	102,224.31	2,149.50	8,689.87	28,529.59	3,787.21
Municipal power.....			1,479.23	1,027.75	598.59
Street lighting.....	11,774.66	1,218.50	2,696.68	5,843.50	1,817.91
Merchandise.....	635.75		75.74		
Miscellaneous.....	2,174.51	140.00	564.96	1,802.05	
Total earnings.....	309,228.93	13,613.82	36,738.51	84,035.77	21,551.68
EXPENSES					
Cost of power supplied by H-E.P.C.	204,937.07	7,311.39	19,783.07	53,317.11	12,103.90
Substation operation.....	5,450.19			899.15	
Substation maintenance.....					
Distribution system, operation and maintenance.....	4,392.15	1,510.17	1,875.78	3,406.38	2,360.55
Line transformer maintenance.....	1,793.07	35.21	220.80	344.20	73.47
Meter maintenance.....	6,170.69	211.95	538.39	1,022.80	277.01
Consumers' premises expenses.....	4,316.85	7.40	257.61		353.10
Street lighting, operation and main- tenance.....	3,420.59	337.92	567.80	2,353.05	490.84
Promotion of business.....	1,119.95		121.42		
Billing and collecting.....	15,047.83		1,233.69	2,885.54	1,336.49
General office, salaries and expenses	12,643.51	1,243.56	985.96	1,914.49	224.10
Undistributed expenses.....	2,866.92	43.57	120.57	1,043.99	89.43
Truck operation and maintenance.....			219.33	823.54	188.75
Interest.....				134.70	42.76
Sinking fund and principal payments on debentures.....					
Depreciation.....	14,477.00	915.00	2,298.00	4,816.00	1,405.00
Other reserves.....	1,000.00				
Total operating costs and fixed charges.....	277,635.82	11,616.17	28,222.42	72,960.95	18,945.40
Net surplus.....	31,593.11	1,997.65	8,516.09	11,074.82	2,606.28
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	4,374	238	457	1,301	375
Commercial light service.....	650	60	101	200	97
Power service.....	117	8	20	29	12
Total.....	5,141	306	578	1,530	484

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Parry Sound 4,556	Penetan- guishene 4,594	Perth 4,475	Peter- borough 33,796	Petrolia 2,931	Picton 3,471	Plattsville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
42,916.31	20,556.25	40,095.88	272,014.57	18,001.37	34,992.80	4,035.51
27,135.84	11,708.45	22,352.23	115,951.91	12,900.86	24,535.51	2,377.28
4,318.95	24,790.11	21,008.10	285,757.79	27,220.28	9,544.96	3,702.71
2,760.00	2,259.97	1,072.93	7,018.50		2,811.15	
5,223.78	2,456.84	3,189.25	27,601.95	3,192.00	4,032.54	408.00
	85.57	3,873.91		444.92	164.79	
2,692.24	1,250.76	3,304.57	10,018.29	1,283.37	681.47	285.00
85,047.12	63,107.95	94,896.87	718,363.01	63,042.80	76,763.22	10,808.50
13,622.95	34,028.69	51,361.21	458,249.78	32,269.58	51,305.82	8,905.27
11,628.02		278.22	12,708.47	91.70	89.95	
1,420.24	273.86		1,689.67			
3,691.32	6,648.86	3,847.97	24,806.29	2,562.51	1,159.36	333.61
166.80	300.60	474.59	3,114.66	713.12	357.81	
1,551.46	485.88	174.18	17,194.63	1,198.31	503.23	277.73
120.91	709.27	41.84	23,023.11	1,472.77	244.87	
754.53	411.58	774.19	7,589.10	633.73	483.25	27.56
		90.94	530.49	79.01	69.13	
3,316.84	2,115.67	3,161.62	16,647.49	1,988.69	2,704.79	248.10
7,126.60	2,025.47	4,288.75	11,644.27	3,989.22	3,346.95	91.97
2,401.38	203.47	522.10	14,303.90	612.57	336.90	5.00
1,078.97	854.73	2,328.42	8,152.06	2,323.99	825.96	
2,913.85		911.24	533.85			
25,538.40		3,418.16	5,000.00			
8,602.00	3,123.00	3,675.00	38,814.00	5,422.00	4,070.00	273.00
			300.00			
83,934.27	51,181.08	75,348.43	644,301.77	53,357.20	65,498.02	10,162.24
1,112.85	11,926.87	19,548.44	74,061.24	9,685.60	11,265.20	646.26
1,330	952	1,282	8,744	867	1,268	129
201	129	220	1,198	187	270	26
10	22	36	204	59	42	2
1,541	1,103	1,538	10,146	1,113	1,580	157

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Point Edward 1,537	Port Colborne 7,578	Port Credit 2,425	Port Dalhousie 1,750	Port Dover 2,029
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	10,513.55	39,031.60	28,376.92	29,697.42	15,910.14
Commercial light service.....	4,158.34	26,666.27	10,663.47	7,264.08	9,630.40
Commercial power service.....	61,720.13	19,143.08	7,989.90	9,202.77	8,148.10
Municipal power.....		6,894.18	1,093.63		
Street lighting.....	2,059.89	9,131.96	3,201.00	1,759.00	3,107.49
Merchandise.....	1,722.25				
Miscellaneous.....	965.28	3,800.92	101.76	154.49	102.30
Total earnings.....	81,139.44	104,668.01	51,426.68	48,077.76	36,898.43
EXPENSES					
Cost of power supplied by H.E.P.C.	64,786.71	50,586.13	31,068.88	28,490.08	20,237.61
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	614.34	10,681.28	1,961.83	6,964.92	3,101.64
Line transformer maintenance.....	52.55	1,312.78	560.45	195.83	50.77
Meter maintenance.....	305.97	934.38	961.37	1,068.82	812.46
Consumers' premises expenses.....	434.70	702.23	1,308.09	212.78	23.75
Street lighting, operation and main- tenance.....	258.28	3,027.52	737.43	432.01	219.51
Promotion of business.....	190.08	81.54			
Billing and collecting.....	1,497.19	5,655.46	2,043.71	2,203.98	939.29
General office, salaries and expenses	2,506.12	4,127.78	916.29	2,463.82	1,427.98
Undistributed expenses.....	43.21	2,033.79	246.29	411.66	175.53
Truck operation and maintenance.....		1,548.57	1,101.15	1,130.05	619.35
Interest.....		273.14	97.68		13.21
Sinking fund and principal payments on debentures.....		1,732.92	458.53		
Depreciation.....	1,108.00	6,747.00	3,006.00	2,015.00	2,902.00
Other reserves.....					
Total operating costs and fixed charges.....	71,797.15	89,444.52	44,467.70	45,588.95	30,523.10
Net surplus.....	9,342.29	15,223.49	6,958.98	2,488.81	6,375.33
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	417	1,789	753	779	897
Commercial light service.....	54	261	106	79	164
Power service.....	14	28	15	15	24
Total.....	485	2,078	874	873	1,085

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Port Elgin	Port Hope	Port McNicoll	Port Perry	Port Rowan	Port Stanley
1,450	5,104	890	1,407	700	930
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
18,977.58	52,426.65	5,584.82	14,379.60	4,079.52	22,077.33
10,637.83	22,726.25	1,350.14	7,944.31	3,813.77	8,500.23
3,808.22	57,789.49		3,359.65	37.67	6,321.31
881.59	1,975.18	210.74	425.45		790.16
2,785.70	4,513.86	1,025.00	1,685.56	810.45	2,711.78
	111.88	9.53			
289.02	947.35		330.00	80.42	617.31
37,379.94	140,490.66	8,180.23	28,124.57	8,821.83	41,018.12
21,194.83	93,474.13	3,669.55	13,429.96	4,900.17	24,438.71
	37.49				
2,058.10	2,313.12	630.56	1,720.35	653.25	3,441.93
89.47	404.30		141.87	65.00	236.96
192.97	1,061.44	81.16	456.04	410.82	1,153.55
526.64	1,861.78		629.15		5.20
529.77	1,445.57	150.66	239.96	117.26	413.15
	73.73				
1,023.64	3,937.47	576.56	834.03	370.94	2,339.49
421.37	6,326.48	330.67	761.57	51.70	1,699.71
89.40	1,978.40	62.90	12.91	41.68	519.21
1,596.78	1,753.54				371.44
460.90		43.68		0.85	17.03
2,911.33					
1,728.00	5,248.00	739.00	851.00	422.00	1,467.00
32,823.20	119,915.45	6,284.74	19,076.84	7,033.67	36,103.38
4,556.74	20,575.21	1,895.49	9,047.73	1,788.16	4,914.74
617	1,733	265	452	226	898
144	243	24	95	68	126
8	47	1	12	1	10
769	2,023	290	559	295	1,034

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Prescott	Preston	Priceville	Princeton	Queenston
Population.....	3,252	7,230	P.V.	P.V.	P.V.
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	28,922.56	54,663.69	967.55	3,645.45	3,608.17
Commercial light service.....	15,681.60	25,473.27	248.95	1,194.70	2,339.57
Commercial power service.....	10,219.87	66,905.18	322.82	3,354.34	.....
Municipal power.....	1,491.30	1,140.57	.....	.....	.....
Street lighting.....	3,934.20	7,841.21	42.00	532.00	576.00
Merchandise.....	.....	.....	.....	.....	.....
Miscellaneous.....	461.54	1,748.36	58.80	210.00	232.50
Total earnings.....	60,711.07	157,772.28	1,640.12	8,936.49	6,756.24
EXPENSES					
Cost of power supplied by H.E.P.C.	35,960.58	109,585.54	808.23	6,553.98	3,744.57
Substation operation.....	2,218.33	5,348.92	.....	.....	.....
Substation maintenance.....	.....	.....	.....	.....	.....
Distribution system, operation and maintenance.....	4,954.16	3,037.95	216.95	82.43	273.66
Line transformer maintenance.....	211.49	340.73	.....	4.50	85.12
Meter maintenance.....	393.09	1,193.38	13.00	14.31	283.46
Consumers' premises expenses.....	819.27	586.83	.....	.....	156.04
Street lighting, operation and maintenance.....	1,432.06	800.18	51.12	105.57	62.11
Promotion of business.....	.....	.....	.....	.....	.....
Billing and collecting.....	2,420.31	2,437.55	.....	243.15	263.30
General office, salaries and expenses	3,512.37	4,202.80	274.07	155.19	377.50
Undistributed expenses.....	607.12	1,255.15	.....	1.98	6.50
Truck operation and maintenance...	764.03	1,795.51	.....	.....	.....
Interest.....	4.93	681.46	.....	.....	8.45
Sinking fund and principal payments on debentures.....	.....	1,386.33	.....	.....	109.19
Depreciation.....	2,887.00	7,925.00	210.00	232.00	357.00
Other reserves.....	.....	.....	.....	.....	.....
Total operating costs and fixed charges.....	56,184.74	140,577.33	1,573.37	7,393.11	5,726.90
Net surplus.....	4,526.33	17,194.95	66.75	1,543.38	1,029.34
Net loss.....	.....	.....	.....	.....	.....
NUMBER OF CONSUMERS					
Domestic service.....	865	1,870	50	103	89
Commercial light service.....	166	250	9	23	19
Power service.....	26	60	2	4	.....
Total.....	1,057	2,180	61	130	108

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Renfrew 6,074	Richmond 494	Richmond Hill 1,677	Ridgetown 2,113	Ripley 429	Riverside 6,772	Rockwood P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
44,518.50	4,004.40	18,162.90	11,615.02	4,536.03	58,480.65	5,686.44
19,907.93	1,868.42	5,749.74	11,334.90	2,286.55	10,257.66	2,146.37
52,031.30		1,937.12	7,446.86	973.11	4,907.30	67.98
		432.31	1,378.54		3,696.16	
5,271.76	405.00	1,579.00	3,295.54	968.50	5,185.04	802.52
		187.13	241.71		1,840.40	9.49
9,954.39		261.40	1,995.73		940.87	111.18
131,683.88	6,277.82	28,309.60	37,308.30	8,764.19	85,308.08	8,823.98
26,802.48	4,340.36	18,936.55	17,954.57	5,404.47	49,954.34	5,749.29
28,546.15						
2,033.91						
3,406.88	221.85	911.79	4,409.91	524.56	4,679.77	233.94
747.65	117.47	21.98	152.46		81.58	
1,219.02	15.68	100.05	1,181.60	13.38	900.72	75.70
			200.63		5,473.81	
816.75	81.64	240.42	1,187.85	78.11	997.12	142.70
			119.01		51.90	
3,876.62	285.87	1,513.36	2,740.07		2,413.11	
7,568.29	146.91	376.98	2,215.98	639.04	3,911.66	985.77
2,810.28		12.77	71.74		988.28	31.47
831.45			1,116.62		1,602.73	
2,546.83	44.37		2.25	114.11	130.39	35.56
9,102.98	534.81			914.95		165.04
11,345.00	371.00	1,189.00	1,387.00	605.00	3,811.00	475.00
101,654.29	6,159.96	23,302.90	32,739.69	8,293.62	74,996.41	7,894.47
30,029.59	117.86	5,006.70	4,568.61	470.57	10,311.67	929.51
1,581	119	527	675	144	1,941	192
250	25	88	163	53	95	39
66		14	24	1	15	2
1,897	144	629	862	198	2,051	233

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Rodney	Rosseau	Russell	St. Catharines	St. Clair Beach
Population.....	850	210	P.V.	35,436	350
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,736.86	2,299.83	4,702.05	238,646.86	4,372.65
Commercial light service.....	3,609.47	1,247.38	2,637.96	116,354.42	2,254.69
Commercial power service.....	2,863.37	655.20	200.71	402,823.08	240.49
Municipal power.....					
Street lighting.....	1,132.08	940.02	912.00	29,231.71	199.50
Merchandise.....					
Miscellaneous.....	156.00	82.50	197.50	13,511.96	283.57
Total earnings.....	12,497.78	5,224.93	8,650.22	800,568.03	7,350.90
EXPENSES					
Cost of power supplied by H.E.P.C.	6,892.32	2,545.06	4,160.73	548,686.99	3,969.26
Substation operation.....				15,212.41	
Substation maintenance.....					
Distribution system, operation and maintenance.....	933.50	228.75	344.17	30,242.57	342.08
Line transformer maintenance.....				2,574.33	46.29
Meter maintenance.....	96.10	38.35	32.59	12,840.50	58.25
Consumers' premises expenses.....			9.70	2,017.71	40.92
Street lighting, operation and main- tenance.....	141.05	110.68	44.55	5,415.98	45.20
Promotion of business.....				3,051.43	
Billing and collecting.....	942.90	341.83	567.61	27,594.76	412.95
General office, salaries and expenses	425.91	110.14	217.55	15,361.54	546.92
Undistributed expenses.....	33.44	7.97		13,323.51	1.61
Truck operation and maintenance.....				5,203.16	
Interest.....		334.40		525.00	
Sinking fund and principal payments on debentures.....		799.00		3,500.00	
Depreciation.....	873.00	247.00	281.00	25,006.00	414.00
Other reserves.....					
Total operating costs and fixed charges.....	10,338.22	4,763.18	5,657.90	710,555.89	5,877.48
Net surplus.....	2,159.56	461.75	2,992.32	90,012.14	1,473.42
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	296	79	128	9,801	132
Commercial light service.....	69	14	33	1,279	13
Power service.....	8	1	1	243	1
Total.....	373	94	162	11,323	146

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

St. George P.V.	St. Jacobs P.V.	St. Marys 3,820	St. Thomas 18,808	Sarnia 22,842	Scarborough Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,291.53	5,201.76	43,140.12	167,757.54	163,478.63	232,578.48
2,771.69	2,816.77	18,687.52	69,036.95	84,843.65	47,605.44
3,358.19	4,785.50	25,397.11	95,639.92	281,638.88	42,165.73
.....	.....	2,474.30	4,857.70	5,657.59	17,359.84
540.91	450.00	4,912.88	15,573.15	20,977.65	15,140.00
.....	.....	.....	.....	11,053.16	.....
303.24	300.00	464.65	3,181.78	13,987.59	1,731.42
11,265.56	13,554.03	95,076.58	356,047.04	581,637.15	356,580.91
.....
6,360.98	9,442.73	58,740.71	224,059.29	373,698.17	208,057.97
.....	.....	3,812.70	13,144.05	17,244.95	.....
.....	.....	.....	1,055.79	834.67	1,162.68
712.30	124.18	7,122.25	15,422.96	13,244.81	14,661.45
112.43	32.10	428.38	1,152.98	1,001.54	3,102.38
185.07	145.45	2,802.29	9,113.35	11,064.72	3,199.63
.....	.....	4,252.36	17,511.30	20,581.40	3,480.85
201.51	56.38	1,235.46	3,361.54	10,753.84	3,828.09
.....	.....	243.16	1,193.74	166.43	.....
719.26	810.48	2,073.57	12,915.69	16,653.72	14,075.76
348.32	207.36	3,833.68	16,647.74	26,385.73	8,870.56
40.84	27.73	1,640.64	.....	11,973.32	2,950.00
.....	.....	1,025.60	.....	4,939.81	7,454.63
5.06	.....	965.02	.....	8.74	.....
.....	.....	1,650.39	.....	.....	.....
599.00	642.00	4,686.00	15,019.00	30,641.00	26,662.00
.....
9,284.77	11,488.41	94,512.21	330,597.43	539,192.85	297,506.00
1,980.79	2,065.62	564.37	25,449.61	42,444.30	59,074.91
.....
.....
186	153	1,188	5,019	5,963	8,554
39	38	200	632	725	679
3	9	39	92	106	83
228	200	1,427	5,743	6,794	9,316

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Seaforth	Shelburne	Simcoe	Smiths Falls
Population.....	1,898	1,158	6,829	8,155
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	17,995.51	8,610.43	34,751.93	72,687.58
Commercial light service.....	12,065.12	5,587.83	41,592.02	32,577.33
Commercial power service.....	18,536.50	3,238.31	33,658.84	35,558.51
Municipal power.....	755.18	315.36	3,079.02	887.17
Street lighting.....	2,039.00	882.00	7,715.75	8,703.18
Merchandise.....			453.39	
Miscellaneous.....	347.16	337.62	3,713.22	2,988.48
Total earnings.....	51,738.47	18,971.55	124,964.17	153,402.25
EXPENSES				
Cost of power supplied by H-E.P.C....	34,477.60	10,052.53	74,558.77	93,401.70
Substation operation.....	298.80		785.64	446.01
Substation maintenance.....				1,859.46
Distribution system, operation and maintenance.....	3,570.80	970.79	5,018.93	10,244.16
Line transformer maintenance.....	203.23	95.87	1,115.79	394.48
Meter maintenance.....	897.28	190.33	2,872.70	1,024.74
Consumers' premises expenses.....	547.97		910.13	285.17
Street lighting, operation and maintenance.....	708.35	458.50	1,329.64	1,934.22
Promotion of business.....	284.53		180.31	
Billing and collecting.....	1,380.06	1,043.29	3,889.99	6,450.48
General office, salaries and expenses.....	2,533.61	309.22	4,425.89	6,663.70
Undistributed expenses.....	800.83	4.46	3,254.15	3,046.45
Truck operation and maintenance.....	691.10		1,909.22	3,121.72
Interest.....	310.18		174.25	114.89
Sinking fund and principal payments on debentures.....	615.52		792.19	
Depreciation.....	2,626.00	1,120.00	7,744.00	5,952.00
Other reserves.....				
Total operating costs and fixed charges.....	49,945.86	14,244.99	108,961.60	134,939.18
Net surplus.....	1,792.61	4,726.56	16,002.57	18,463.07
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	574	356	1,879	2,318
Commercial light service.....	124	92	425	329
Power service.....	21	13	63	42
Total.....	719	461	2,367	2,689

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Smithville P.V.	Southampton 1,713	Springfield 504	Stamford Twp. V.A.	Stayner 1,106	Stirling 1,061
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,537.80	15,764.14	3,234.89	100,906.13	9,180.02	9,868.41
4,624.37	7,583.94	1,215.29	22,790.61	5,531.77	4,757.50
12,385.24	9,858.26	1,926.81	24,599.97	3,210.81	2,227.70
.....	1,112.31	.....	2,573.29	114.49	299.33
1,347.27	2,618.40	611.50	9,340.50	1,539.00	1,703.33
.....	.....	.....	4,789.31	1.90	290.35
391.41	234.81	173.12	877.09	355.61	457.27
23,286.09	37,171.86	7,161.61	165,876.90	19,933.60	19,603.89
13,723.99	22,336.16	3,880.34	77,130.47	10,443.95	9,966.77
.....	.....	.....	950.72	.....	240.00
2,216.98	2,312.62	120.07	16,710.22	1,020.12	1,670.33
12.50	146.91	59.32	483.12	.....	37.25
116.80	758.55	341.45	5,145.41	263.41	92.12
38.12	671.77	3.14	3,794.45	380.20	.....
271.76	734.79	103.64	2,267.73	280.50	153.33
1,186.73	1,169.29	499.93	6,597.65	1,147.26	997.27
340.43	817.55	221.28	6,685.04	471.97	1,689.14
95.72	139.87	1.49	3,707.65	4.19	146.12
412.28	520.42	.....	4,793.10	.....	307.08
116.32	.....	.....	3,832.88	3.13	.....
931.65	.....	.....	12,919.01	.....	.....
479.00	1,836.00	591.00	14,523.00	950.00	1,330.00
19,942.28	31,443.93	5,821.66	159,540.45	14,964.73	16,629.41
3,343.81	5,727.93	1,339.95	6,336.45	4,968.87	2,974.48
200	673	128	3,233	342	336
63	101	36	225	96	88
11	14	4	29	20	15
274	788	168	3,487	458	439

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Stoney Creek*	Stouffville	Stratford	Strathroy
Population.....	1,268	1,438	18,288	3,227
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	17,882.90	12,082.24	182,344.53	34,404.91
Commercial light service.....	7,612.42	6,631.71	69,133.89	17,104.90
Commercial power service.....	2,855.16	4,113.14	75,640.69	18,990.69
Municipal power.....			9,163.57	1,670.19
Street lighting.....	1,081.24	1,463.00	17,440.87	4,627.75
Merchandise.....			4,454.97	
Miscellaneous.....	134.25	180.00	13,749.23	922.50
Total earnings.....	29,565.97	24,470.09	371,927.75	77,720.94
EXPENSES				
Cost of power supplied by H.E.P.C....	13,788.25	15,922.39	206,308.64	47,005.76
Substation operation.....			9,078.91	1,011.87
Substation maintenance.....			2,435.00	
Distribution system, operation and maintenance.....	395.36	1,049.81	16,961.80	4,503.49
Line transformer maintenance.....		11.20	120.62	370.20
Meter maintenance.....	527.65	221.10	5,191.70	973.12
Consumers' premises expenses.....	234.89	332.63	6,627.57	6.37
Street lighting, operation and main- tenance.....	298.08	180.65	3,346.37	1,206.27
Promotion of business.....			2,789.57	109.01
Billing and collecting.....	1,748.17	1,208.00	11,361.84	1,733.18
General office, salaries and expenses..	129.59	465.15	11,959.22	3,995.96
Undistributed expenses.....		65.43	4,395.26	738.48
Truck operation and maintenance.....			1,987.74	697.34
Interest.....	1,855.36		900.00	284.54
Sinking fund and principal payments on debentures.....			2,650.00	1,320.31
Depreciation.....	1,239.00	1,017.00	21,256.00	3,320.00
Other reserves.....				
Total operating costs and fixed charges.....	20,216.35	20,473.36	307,370.24	67,275.90
Net surplus.....	9,349.62	3,996.73	64,557.51	10,445.04
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	400	478	4,885	1,041
Commercial light service.....	69	100	655	202
Power service.....	9	10	135	38
Total.....	478	588	5,675	1,281

*14 months operation.

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Streetsville	Sunderland	Sutton	Swansea	Tara	Tavistock
822	P.V.	1,075	7,313	511	1,075
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,627.14	4,974.76	12,354.45	82,014.45	3,905.77	11,398.18
4,413.68	2,313.62	9,964.16	14,470.68	1,935.54	5,842.11
14,988.20	2,683.96	2,655.26	27,805.21	1,678.62	8,921.41
245.07			2,014.96	94.07	406.86
1,665.50	645.60	2,084.42	6,501.34	911.00	1,330.86
					36.35
		120.13	1,893.05	70.35	345.00
30,939.59	10,617.94	27,178.42	134,699.69	8,595.35	28,280.77
19,135.02	7,529.47	17,265.77	90,920.26	5,263.59	20,295.93
2,322.01			266.72		81.16
1,911.21	1,080.73	537.80	2,668.33	777.45	1,208.42
125.41	12.00	40.48	425.23		3.45
216.30	43.05	316.25	2,058.22	36.15	363.63
			8,812.29		435.53
310.71	114.28	127.48	1,043.59	145.29	297.62
1,630.24	556.40	890.99	6,045.73	221.95	1,488.30
579.69	173.10	291.25	3,024.72	190.50	554.83
	12.57	21.57		47.15	37.36
		198.72			
	56.34		1,824.68		11.29
			4,388.22		
1,180.00	320.00	1,547.00	4,312.00	801.00	885.00
27,410.59	9,897.94	21,237.31	125,789.99	7,483.08	25,662.52
3,529.00	720.00	5,941.11	8,909.70	1,112.27	2,618.25
247	174	620	2,224	178	325
59	42	101	134	40	100
9	2	9	22	7	10
315	218	730	2,380	225	435

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Tecumseh	Teeswater	Thamesford	Thamesville
Population.....	3,224	843	P.V.	749
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	19,631.12	5,916.80	5,989.70	4,826.16
Commercial light service.....	7,403.35	3,925.29	2,119.06	4,214.87
Commercial power service.....	4,197.99	1,854.76	3,145.66	3,311.48
Municipal power.....	483.24	550.96		168.87
Street lighting.....	1,746.75	834.00	634.49	1,242.64
Merchandise.....	63.97			
Miscellaneous.....	524.39	371.88	90.00	464.28
Total earnings.....	34,050.81	13,453.69	11,978.91	14,228.30
EXPENSES				
Cost of power supplied by H-E.P.C....	18,870.41	7,824.64	9,461.19	8,859.90
Substation operation.....				
Substation maintenance.....				
Distribution system, operation and maintenance.....	2,100.72	436.80	429.23	679.16
Line transformer maintenance.....	241.54		6.30	83.73
Meter maintenance.....	743.49	135.43	349.20	256.75
Consumers' premises expenses.....	1,851.10	210.13	274.62	
Street lighting, operation and maintenance.....	317.19	168.03	48.97	65.12
Promotion of business.....	4.50			
Billing and collecting.....	1,233.74	698.41	332.42	719.49
General office, salaries and expenses..	2,236.16	431.64	106.24	395.04
Undistributed expenses.....	167.67		7.59	35.33
Truck operation and maintenance.....	469.67			
Interest.....	9.75		0.08	
Sinking fund and principal payments on debentures.....				
Depreciation.....	2,657.00	767.00	426.00	797.00
Other reserves.....				
Total operating costs and fixed charges.....	30,902.94	10,672.08	11,441.84	11,891.52
Net surplus.....	3,147.87	2,781.61	537.07	2,336.78
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	848	247	167	284
Commercial light service.....	88	63	45	101
Power service.....	6	6	5	8
Total.....	942	316	217	393

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Thedford	Thornbury	Thorndale	Thornton	Thorold	Tilbury
579	801	P.V.	P.V.	5,989	2,165
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,610.07	7,692.99	3,009.72	1,757.70	26,197.47	12,440.82
3,594.32	4,276.98	1,038.04	559.07	10,638.20	9,724.96
2,697.88	3,289.30	2,299.16	478.53	58,717.43	15,762.03
.....	670.05	.....	.....	1,913.29	225.00
1,200.00	1,833.00	384.00	25.00	4,059.36	2,189.12
.....	.....	.....	.....	.....	9.00
300.00	.....	45.00	75.00	3,119.57	953.01
.....
12,402.27	17,762.32	6,775.92	2,895.30	104,645.32	41,303.94
.....
7,591.97	4,908.08	5,132.34	1,735.98	73,777.02	26,227.47
.....	4,637.38	.....	.....	4,936.29	.....
.....
688.05	844.45	305.74	158.09	3,079.77	3,558.30
86.82	.....	28.13	.....	150.87	379.21
343.63	136.50	189.31	9.10	657.14	313.10
37.97	.....	.....	.....	84.55	.....
.....
240.79	255.10	47.62	79.54	1,166.28	833.80
.....	.....	10.80	.....	.....	.....
708.51	801.77	269.08	.....	3,350.06	1,037.23
322.08	423.74	111.59	175.76	1,885.95	1,334.51
12.27	211.09	1.43	6.24	553.55	534.02
.....	.....	.....	.....	785.82	464.52
15.74	284.52	0.65	.....	.....	.....
.....
.....	245.54	.....	.....	.....	.....
.....
798.00	895.00	285.00	334.00	2,765.00	1,574.00
.....
.....
10,845.83	13,643.17	6,381.69	2,498.71	93,192.30	36,256.16
.....
1,556.44	4,119.15	394.23	396.59	11,453.02	5,047.78
.....
.....
.....
192	297	89	72	1,413	690
67	70	25	14	178	149
3	14	3	2	34	18
.....
262	381	117	88	1,625	857

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Tillsonburg	Toronto	Toronto Twp. V.A.	Tottenham
Population.....	4,707	695,302		550
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	31,156.65	4,719,992.17	173,723.24	5,012.74
Commercial light service.....	28,753.52	3,224,300.18	33,735.87	2,349.48
Commercial power service.....	24,791.34	5,244,932.77	62,641.04	1,873.50
Municipal power.....	1,990.92	1,602,206.55	279.18	389.09
Street lighting.....	5,581.08	523,517.89	7,859.72	1,037.16
Merchandise.....	446.67	39,408.83		
Miscellaneous.....	710.84	571,847.78	376.67	
Total earnings.....	93,431.02	15,926,206.17	278,615.72	10,661.97
EXPENSES				
Cost of power supplied by H-E.P.C....	52,256.67	*8,854,086.84	153,235.45	4,421.99
Substation operation.....	1,567.00	358,669.82		
Substation maintenance.....		472,830.02		
Distribution system, operation and maintenance.....	5,406.81	612,332.57	13,990.48	809.20
Line transformer maintenance.....	600.89	93,371.32	1,621.94	
Meter maintenance.....	1,030.34	148,375.11	2,685.84	70.15
Consumers' premises expenses.....	195.49	395,676.78	553.56	
Street lighting, operation and main- tenance.....	1,443.98	201,634.70	1,237.92	129.95
Promotion of business.....		252,116.96		
Billing and collecting.....	3,559.13	604,579.40	12,514.15	551.87
General office, salaries and expenses.....	4,624.28	600,350.55	15,566.85	171.16
Undistributed expenses.....	1,325.65	450,886.48		56.67
Truck operation and maintenance.....	1,977.11			412.41
Interest.....	460.45	203,604.98	1,261.02	2.00
Sinking fund and principal payments on debentures.....	441.92	382,915.12	2,898.03	
Depreciation.....	5,638.00	1,329,566.85	11,100.00	728.00
Other reserves.....		x900,000.00		
Total operating costs and fixed charges.....	80,527.72	15,860,997.50	216,665.24	7,353.40
Net surplus.....	12,903.30	65,208.67	61,950.48	3,308.57
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	1,438	156,481	4,331	177
Commercial light service.....	320	24,934	301	49
Power service.....	44	5,687	56	9
Total.....	1,802	187,102	4,688	235

*Includes 1948 Cost Adjustment.

xProvision for frequency changeover.

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Trafalgar Twp. V.A.	Trenton 9,218	Tweed 1,600	Uxbridge 1,515	Victoria Harbour 940	Walkerton 2,954
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
37,555.35	58,609.25	11,477.40	15,808.37	5,079.68	27,156.01
6,490.13	26,336.69	7,166.85	6,605.00	1,247.15	18,925.94
4,517.23	95,118.45	8,234.99	4,598.46		13,567.97
	6,389.19	498.32	499.19	98.80	533.44
145.00	10,057.08	1,871.74	1,980.48	580.00	3,159.96
	71.10	758.85	87.56		269.31
	3,967.43	359.32	270.00	91.33	618.49
48,707.71	200,549.19	30,367.47	29,849.06	7,096.96	64,231.12
24,768.86	135,644.23	16,764.96	16,571.25	3,799.85	31,407.33
	211.10				
6,855.75	3,139.29	2,328.10	1,588.35	578.60	2,215.67
786.43	319.83	16.63	45.58		208.57
705.25	3,712.86	347.91	292.90	90.30	770.26
74.84	1,242.88		1,031.93		111.08
52.39	1,004.18	507.22	356.79	188.00	663.07
2,079.04	6,514.73	616.20	1,092.95	804.36	2,876.12
1,293.64	6,842.94	380.55	831.90	476.35	2,391.48
794.23	2,531.89	11.19	11.15	64.72	151.78
2,655.32	3,544.99				1,235.09
42.17			18.99		896.29
1,127.73					4,158.99
1,833.00	9,678.00	1,056.00	1,276.00	435.00	2,894.00
43,068.65	174,386.92	22,028.76	23,117.79	6,437.18	49,979.73
5,639.06	26,162.27	8,338.71	6,731.27	659.78	14,251.39
753	2,328	370	512	318	850
71	315	89	112	35	175
14	62	17	14	1	21
838	2,705	476	638	354	1,046

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Wallaceburg	Wardsville	Warkworth	Waterdown
Population.....	6,611	315	P.V.	1,035
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	39,954.95	2,428.90	3,555.30	9,049.62
Commercial light service.....	24,918.65	1,888.86	2,065.17	3,082.27
Commercial power service.....	173,529.04	42.74	138.29	1,882.33
Municipal power.....	5,611.59			117.80
Street lighting.....	5,623.75	666.00	658.63	1,141.00
Merchandise.....	5,523.16			
Miscellaneous.....	3,443.38	120.00	121.00	270.00
Total earnings.....	258,604.52	5,146.50	6,538.39	15,543.02
EXPENSES				
Cost of power supplied by H-E.P.C....	175,510.30	2,819.22	3,458.48	9,665.23
Substation operation.....	599.57			
Substation maintenance.....				
Distribution system, operation and maintenance.....	8,020.58	669.56	225.51	2,008.86
Line transformer maintenance.....	117.26	7.95	59.08	482.23
Meter maintenance.....	1,800.72	178.28	73.95	346.50
Consumers' premises expenses.....	7.72	2.70		
Street lighting, operation and maintenance.....	1,247.86	77.67	11.50	136.74
Promotion of business.....	137.40			
Billing and collecting.....	3,106.29	118.98	258.25	884.50
General office, salaries and expenses.....	6,189.52	109.10	71.29	169.11
Undistributed expenses.....	1,952.96	6.01	6.40	54.05
Truck operation and maintenance.....	3,263.00			
Interest.....		17.54	267.67	3.25
Sinking fund and principal payments on debentures.....			531.47	
Depreciation.....	9,639.00	251.00	232.00	711.00
Other reserves.....				
Total operating costs and fixed charges.....	211,592.18	4,258.01	5,195.60	14,461.47
Net surplus.....	47,012.34	888.49	1,342.79	1,081.55
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	1,850	84	162	317
Commercial light service.....	305	23	40	42
Power service.....	61	1	1	10
Total.....	2,216	108	203	369

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Waterford	Waterloo	Watford	Waubauskene	Welland	Wellesley
1,460	10,408	1,022	P.V.	15,423	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
10,194.17	88,138.62	11,338.99	5,292.01	62,004.59	3,873.32
4,485.35	30,585.89	5,976.30	1,432.34	49,901.76	2,721.43
5,540.65	96,888.47	5,723.62	862.74	195,913.59	1,415.21
340.55	3,803.86	379.84	186.26	3,028.14	
1,474.60	8,190.74	1,583.08	599.90	18,469.32	771.60
		133.84			
330.00	1,504.65	506.00		10,653.38	185.34
22,365.32	229,112.23	25,641.67	8,373.25	339,970.78	8,966.90
14,369.74	172,119.79	16,615.37	4,419.48	232,913.80	5,492.03
	4,488.87			12,547.49	
	3,039.41			870.22	
1,760.27	9,415.51	2,475.40	423.82	5,585.99	283.92
54.80	966.73			422.26	13.10
432.90	2,204.86	502.84	61.60	8,744.33	458.00
	716.40	254.61	19.55	5,407.03	97.50
290.26	1,630.50	181.08	101.60	2,762.95	172.11
				330.25	
779.20	5,987.76	935.77	451.48	9,513.92	445.32
406.07	5,797.88	874.71	262.25	12,396.19	327.92
102.22	1,217.87	319.86		7,680.54	18.18
	2,130.97	505.34		2,304.58	
	71.05				
923.00	10,249.00	851.00	577.00	13,583.00	558.00
19,118.46	220,036.60	23,515.98	6,316.78	315,062.55	7,866.08
3,246.86	9,075.63	2,125.69	2,056.47	24,908.23	1,100.82
472	2,644	333	274	3,463	154
86	285	85	30	542	51
15	84	9	3	99	9
573	3,013	427	307	4,104	214

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Wellington	West Lorne	Weston	Westport
Population.....	1,014	960	6,789	675
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	9,445.79	5,682.92	73,334.09	5,316.22
Commercial light service.....	4,078.64	5,015.70	20,795.46	4,092.42
Commercial power service.....	6,202.13	14,455.98	79,661.64	
Municipal power.....			13.21	
Street lighting.....	1,120.98	1,155.63	7,637.04	1,085.66
Merchandise.....		204.56		
Miscellaneous.....	360.00	254.09	930.48	181.83
Total earnings.....	21,207.54	26,768.88	182,371.92	10,676.13
EXPENSES				
Cost of power supplied by H-E.P.C....	11,202.62	19,929.19	130,479.29	5,843.58
Substation operation.....				
Substation maintenance.....			662.62	
Distribution system, operation and maintenance.....	679.70	743.11	13,213.00	815.13
Line transformer maintenance.....	65.95		1,538.91	42.17
Meter maintenance.....	429.54	362.68	353.66	494.24
Consumers' premises expenses.....	169.31	76.88	873.43	
Street lighting, operation and maintenance.....	204.34	341.07	2,295.51	133.69
Promotion of business.....				
Billing and collecting.....	624.46	721.48	3,124.51	697.41
General office, salaries and expenses..	406.16	391.97	6,015.56	854.20
Undistributed expenses.....	342.40	5.28	1,098.98	33.63
Truck operation and maintenance.....	321.43		1,470.10	
Interest.....	46.75	37.74		241.99
Sinking fund and principal payments on debentures.....	719.05			1,013.21
Depreciation.....	717.00	1,178.00	9,649.00	419.00
Other reserves.....				
Total operating costs and fixed charges.....	15,928.71	23,787.40	170,774.57	10,588.25
Net surplus.....	5,278.83	2,981.48	11,597.35	87.88
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	379	275	1,940	173
Commercial light service.....	80	68	249	55
Power service.....	12	10	45	
Total.....	471	353	2,234	228

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

Wheatley 872	Whitby 4,611	Warton 2,016	Williams- burg P.V.	Winchester 1,101	Windermere 118	Windsor 118,533
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,743.55	44,696.87	11,856.82	2,241.15	9,484.33	2,566.01	819,633.75
6,294.20	17,825.90	10,380.30	2,261.38	5,792.26	1,030.25	468,932.35
4,791.85	19,400.05	8,686.34	.....	5,703.91	1,113.23	827,657.24
534.21	2,304.85	2,137.03	.....	.....	.....	21,147.03
1,950.85	4,640.32	2,263.67	420.00	944.00	325.00	116,425.51
.....	.....	.....	.....	.....	.....	40,001.28
.....	2,173.94	455.17	681.25	471.72	104.42	47,190.21
19,314.66	91,041.93	35,779.33	5,603.78	22,396.22	5,138.91	2,340,987.37
.....
12,680.09	46,220.66	19,777.75	2,943.72	13,950.24	3,038.39	1,379,876.69
.....	609.01	.....	.....	.....	.....	78,679.10
.....	.....	.....	.....	.....	.....	23,369.35
.....
1,284.63	6,380.43	2,690.52	47.23	699.04	332.98	66,319.23
143.83	1,115.93	110.14	.....	46.40	45.66	13,196.21
1,052.16	1,476.39	848.21	60.38	157.92	14.80	41,764.00
167.05	3,662.83	428.72	49.99	96.85	.....	112,014.06
.....
326.63	1,863.30	434.37	130.19	165.32	23.00	47,981.91
.....	363.50	.....	.....	.....	.....	7,571.30
696.46	3,409.93	811.15	440.10	1,147.33	206.77	97,515.11
843.58	5,092.14	1,275.13	177.40	503.83	108.48	77,591.57
32.56	1,979.04	106.01	.....	.....	8.42	19,274.63
.....	1,082.45	571.70	.....	.....	.....	23,462.03
7.03	129.25	684.73	.....	.....	179.80	13,218.49
.....
.....	536.18	2,351.41	.....	.....	844.34	22,069.71
1,462.00	5,844.00	1,431.00	235.00	671.00	335.00	185,333.00
.....
.....
18,696.02	79,765.04	31,520.84	4,084.01	17,437.93	5,137.64	2,209,236.39
618.64	11,276.89	4,258.49	1,519.77	4,958.29	1.27	131,750.98
.....
.....
.....
273	1,232	518	96	334	79	27,995
89	189	123	38	99	12	3,652
12	34	25	.....	5	2	573
374	1,455	666	134	438	93	32,220

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Concluded

Municipality.....	Wingham	Woodbridge	Woodstock	Woodville
Population.....	2,302	1,246	13,164	416
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	22,536.14	11,575.42	112,638.53	3,245.19
Commercial light service.....	15,804.94	4,068.92	65,874.38	1,318.82
Commercial power service.....	25,512.69	15,776.74	114,586.80	613.75
Municipal power.....	1,282.40	739.80	6,961.54	
Street lighting.....	3,351.83	1,086.00	9,003.67	745.98
Merchandise.....	2,394.57		92.28	
Miscellaneous.....		365.15	3,895.65	179.80
Total earnings.....	70,882.57	33,612.03	313,052.85	6,103.54
EXPENSES				
Cost of power supplied by H-E.P.C....	36,354.23	26,910.04	223,589.06	4,719.26
Substation operation.....	6,882.16		4,865.59	
Substation maintenance.....				
Distribution system, operation and maintenance.....	3,864.15	529.67	9,604.05	590.73
Line transformer maintenance.....	207.47	110.30	271.07	
Meter maintenance.....	1,004.12	32.05	8,935.90	31.76
Consumers' premises expenses.....	1,526.99	77.43	9,959.19	26.60
Street lighting, operation and maintenance.....	795.14	196.05	1,740.10	111.58
Promotion of business.....			3,054.73	
Billing and collecting.....	1,914.93	1,066.27	8,409.97	459.60
General office, salaries and expenses..	2,075.68	539.65	7,929.46	107.87
Undistributed expenses.....	419.83	7.00	3,546.73	1.27
Truck operation and maintenance.....	2,111.51		2,520.94	
Interest.....	722.88		1,061.32	13.36
Sinking fund and principal payments on debentures.....	2,381.01			
Depreciation.....	2,818.00	865.00	12,524.00	216.00
Other reserves.....				
Total operating costs and fixed charges.....	63,078.10	30,333.46	298,012.11	6,278.03
Net surplus.....	7,804.47	3,278.57	15,040.74	
Net loss.....				174.49
NUMBER OF CONSUMERS				
Domestic service.....	661	349	3,847	130
Commercial light service.....	163	60	540	29
Power service.....	22	11	123	2
Total.....	846	420	4,510	161

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1948

THUNDER BAY SYSTEM					
Wyoming 617	York Twp. V.A.	Zurich P.V.	SOUTHERN ONTARIO SYSTEM SUMMARY	Fort William 32,187	Nipigon Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,477.68	642,561.96	5,019.22	19,032,388.42	316,770.37	11,183.64
1,999.49	109,827.51	4,100.66	8,644,034.48	133,742.09	9,704.49
3,279.93	216,805.76		17,705,576.53	102,079.99	558.38
	7,011.38		2,280,020.03	15,194.67	629.41
688.50	51,830.19	693.00	2,053,034.05	22,796.54	841.00
			217,480.97		
110.75	7,915.17	297.55	1,228,932.98	7,424.73	548.03
9,556.35	1,035,951.97	10,110.43	51,161,467.46	598,008.39	23,464.95
6,038.30	601,573.94	6,405.04	30,927,742.86	361,955.56	11,523.61
	5,980.48		953,572.98	10,917.76	
	2,516.66		590,195.80	1,845.31	
401.86	36,207.19	676.70	1,887,017.43	15,873.32	1,563.42
6.75	10,401.58	78.12	241,723.40	3,444.47	13.80
346.06	16,216.86	71.14	658,887.83	9,362.69	129.77
	42,261.77		979,842.27	14,452.01	
182.97	14,360.34	227.90	575,678.34	7,450.81	183.15
			341,097.79	227.88	
262.99	62,218.16	434.56	1,760,789.49	29,955.94	887.59
164.52	45,742.70	344.83	1,729,553.62	20,279.28	1,159.10
12.79	15,213.15	10.07	767,854.27		93.25
		149.87	221,963.04		692.12
5.55	1,333.92	11.88	321,336.62	12,588.80	
	20,026.95		886,004.63	5,254.84	
708.00	51,027.52	430.00	3,159,859.63	27,303.00	1,209.00
	752.39		1,041,923.31	1,000.00	
8,129.79	925,833.61	8,840.11	47,045,043.31	521,911.67	17,454.81
1,426.56	110,118.36	1,270.32	4,116,424.15	76,096.72	6,010.14
192	24,626	187	617,642	8,715	343
48	1,358	44	86,715	1,324	88
3	288		15,874	154	5
243	26,272	231	720,231	10,193	436

STATEMENT

Detailed Operating Reports of Electrical Departments of

THUNDER BAY SYSTEM—Continued

Municipality.....	Port Arthur	Red Rock*	Terrace Bay†	THUNDER BAY SYSTEM SUMMARY
Population.....	27,679	I.D.	I.D.	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	221,712.94	7,851.08	9,670.46	567,188.49
Commercial light service.....	123,611.06	2,523.32	698.18	270,279.14
Commercial power service.....	296,935.62	165.55	4,493.28	404,232.82
Municipal power.....	29,202.03	321.63		45,347.74
Street lighting.....	29,114.40	732.38	1,174.25	54,658.57
Merchandise.....				
Miscellaneous.....	16,581.49			24,554.25
Total earnings.....	717,157.54	11,593.96	16,036.17	1,366,261.01
EXPENSES				
Cost of power supplied by H.E.P.C....	497,264.95	4,853.62	12,526.60	888,124.34
Substation operation.....	36,087.34			47,005.10
Substation maintenance.....	2,457.68			4,302.99
Distribution system, operation and maintenance.....	22,888.52	410.69	3.56	40,739.51
Line transformer maintenance.....	1,419.92			4,878.19
Meter maintenance.....	11,100.40			20,592.86
Consumers' premises expenses.....				14,452.01
Street lighting, operation and main- tenance.....	4,604.85	170.51	57.09	12,466.41
Promotion of business.....	2,054.46			2,282.34
Billing and collecting.....	23,392.44	241.61	432.68	54,910.26
General office, salaries and expenses..	23,879.60	91.78	105.77	45,515.53
Undistributed expenses.....	23,000.89			23,094.14
Truck operation and maintenance.....	5,044.80			5,736.92
Interest.....		586.60		13,175.40
Sinking fund and principal payments on debentures.....		1,170.00		6,424.84
Depreciation.....	36,640.00	681.00	1,422.00	67,255.00
Other reserves.....	3,000.00			4,000.00
Total operating costs and fixed charges.....	692,835.85	8,205.81	14,547.70	1,254,955.84
Net surplus.....	24,321.69	3,388.15	1,488.47	111,305.17
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	7,677	162	212	17,119
Commercial light service.....	1,068	16	8	2,504
Power service.....	152	3	2	316
Total.....	8,897	181	222	19,939

*9½ months' operation. †11 months' operation.

“B”—Concluded

Hydro Municipalities for Year Ended December 31, 1948

NORTHERN ONTARIO DISTRICTS

Capreol	North Bay	Sioux Lookout	Sudbury	NORTHERN ONTARIO DISTRICTS SUMMARY	ALL SYSTEMS GRAND SUMMARY
1,736	17,631	2,155	37,640		
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
16,555.22	139,818.57	22,817.62	327,730.95	506,922.36	20,106,499.27
4,677.99	71,594.44	17,207.92	158,706.32	252,186.67	9,166,500.29
8,377.91	63,014.81	2,113.30	52,349.58	125,855.60	18,235,664.95
682.12	6,331.37	638.85	10,092.58	17,744.92	2,343,112.69
1,442.38	12,626.54	2,235.50	29,037.31	45,341.73	2,153,034.35
.....	4,063.97	.....	.....	4,063.97	221,544.94
170.05	8,550.01	310.31	5,834.10	14,864.47	1,268,351.70
31,905.67	305,999.71	45,323.50	583,750.84	966,979.72	53,494,708.19
.....
20,861.20	198,692.89	24,516.64	372,885.80	616,956.53	32,432,823.73
62.89	4,460.57	.....	14,413.92	18,937.38	1,019,515.46
.....	.....	.....	560.70	560.70	595,059.49
2,733.66	10,227.96	3,070.20	23,582.54	39,614.36	1,967,371.30
92.80	1,438.24	212.98	866.70	2,610.72	249,212.31
492.48	5,066.98	302.15	14,251.09	20,112.70	699,593.39
.....	6,176.47	53.20	4,622.12	10,851.79	1,005,146.07
1,029.16	2,661.66	284.36	10,875.95	14,851.13	602,995.88
.....	.....	.....	15.00	15.00	343,395.13
1,619.65	15,137.15	3,507.94	36,680.50	56,945.24	1,872,644.99
1,224.38	14,480.71	1,608.04	21,646.29	38,959.42	1,814,028.57
197.74	5,701.20	242.77	5,957.10	12,098.81	803,047.22
872.69	3,994.36	987.09	10,006.40	15,860.54	243,560.50
.....	1,252.31	.....	3,449.45	4,701.76	339,213.78
.....	.....	.....	11,013.90	11,013.90	903,443.37
1,221.00	13,565.00	762.00	35,600.00	51,148.00	3,278,262.63
.....	.....	.....	5,598.93	5,598.93	1,051,522.24
.....
30,407.65	282,855.50	35,547.37	572,026.39	920,836.91	49,220,836.06
1,498.02	23,144.21	9,776.13	11,724.45	46,142.81	4,273,872.13
.....
.....
482	3,980	650	9,347	14,459	649,220
61	742	111	1,249	2,163	91,382
2	99	7	141	249	16,439
545	4,821	768	10,737	16,871	757,041

STATEMENT "C"

(pages 340 to 359)

Cost of Power to Municipalities and Rates to Consumers for
Domestic Service—Commercial Light Service—Power Service
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1948

STATEMENT "D"

(pages 360 to 379)

Statistics relating to the Supply of Electrical Energy to Consumers
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1948

STATEMENT "C"

**Cost of Power to Municipalities and Rates to Consumers for
Domestic Service—Commercial Light Service—Power Service
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1948**

In Statement "C" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through The Hydro-Electric Power Commission of Ontario.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, an important factor in determining rates to consumers, is also stated.

Cost of Power to Municipalities

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission"†. In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement; subject however to the modification referred to in the special "NOTE—Power Service" at the head of the tabulation.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

During the past few years most of the urban municipal utilities have further simplified the domestic rate structure by abolishing the service charge,

*Except municipalities, chiefly townships, served as parts of rural power districts, for which consult Section IV.

†R.S.O. 1937, Ch. 62, Sec. 89.

and making a suitable adjustment in the first consumption rate. Where the service charge is retained at 33 and 66 cents gross per month the charge of 33 cents per month per service is made when the permanently installed appliance load is under 2,000 watts, and the charge of 66 cents per month when 2,000 watts or more.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Water-Heater Service: For all consumers using continuous electric water heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. In addition, booster water-heating equipment can be used to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

Power Service: The rate schedules given for power service in Statement "C" are those governing the supply of power at retail by each of the local municipal utilities. The Commission serves direct, certain large power consumers under special contracts, on behalf of the systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for "restricted power", discounts additional to those listed in the table being applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Early in 1949 the Commission changed the method of billing the power demand of industrial power consumers by using kilowatt instead of horsepower. This does not constitute a change in power cost to the consumer, but is used to simplify billing procedure. In the table below the actual basic rate, i.e. the net yearly charge computed by assuming 130 hours monthly use of one horsepower in force during 1948 is shown as in previous years, but the former service charge per horsepower per month is now shown as the equivalent service charge per kilowatt per month. In cases where special local discounts were in force equivalent reductions in service charge and energy rates have been incorporated.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours' monthly use of demand per hp." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1948, in Urban Municipalities

NOTE—Power Service: Early in 1949 the Commission changed the method of billing the power demand of industrial power consumers by using kilowatt instead of horsepower. This does not constitute a change in power cost to the consumer, but is used to simplify billing procedure. In the table below the actual basic rate—i.e. the net yearly charge computed by assuming 130

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month**	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Acton.....T	23.56	.....	60	2.3	1.0	0.83	10
Agincourt.....	25.08	.....	60	3.0	1.0	0.83	10
Ailsa Craig.....	27.90	.....	60	2.5	0.9	0.83	10
Alexandria.....T	27.98	.....	60	3.0	1.0	1.11	10
Alliston.....	25.87	.....	55	3.5	1.0	1.11	10
Almonte.....T	24.57	.....	60	2.5	1.0	0.83	10
Alvinston.....	34.76	.....	60	3.5	1.0	0.83	10
Amherstburg.....T	26.75	.....	60	2.5	0.9	0.83	10
Ancaster Twp.....	25.92	.....	60	3.4	1.0	0.83	10
Apple Hill.....	27.75	.....	60	4.0	1.0	1.39	10
Arkona.....	38.66	.....	60	4.0	1.0	1.11	10
Arnprior.....T	21.20	.....	60	2.8	0.8	0.83	10
Arthur.....	38.18	.....	45	4.5	1.2	1.11	10
Athens.....	28.73	33-66	50	4.5	1.5	1.11	10
Atikokan.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Aurora.....T	22.76	.....	60	2.6	1.0	0.83	10
Aylmer.....T	24.86	.....	60	2.2	0.8	0.83	10
Ayr.....	26.98	.....	60	2.7	1.0	1.11	10
Baden.....	23.36	.....	60	2.4	0.9	0.83	10
Bala.....	.....	33-66	50	3.7	1.2	1.66	10
Barrie.....T	19.89	.....	60	2.4	0.8	0.83	10
Bath.....	33.70	.....	60	4.8	1.5	2.22	10
Beachville.....	23.83	.....	60	2.8	0.9	0.83	10
Beamsville.....	22.01	.....	60	2.2	0.8	0.83	10
Beardmore Townsite..	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Beaverton.....	25.11	.....	60	2.8	1.0	1.11	10
Beeton.....	34.77	.....	45	4.0	1.2	1.39	10
Belle River.....	28.39	.....	60	3.0	0.9	1.11	10
Belleville.....C	19.33	.....	55	1.8	0.6	0.83	10
Blenheim.....T	26.27	.....	60	2.3	0.8	0.83	10

**Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more. Where a service charge of 56 cents is used it applies to either 2-wire or 3-wire service. *2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs. †2-wire service. ‡3-wire service.

“C”

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

hours monthly use of one horsepower—in force during 1948 is shown as in previous years, but the former service charge per horsepower per month is now shown as the equivalent service charge per kilowatt per month. In cases where special local discounts were in force equivalent reductions in service charge and energy rates have been incorporated.

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.6	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.0	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.6	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	3.2	0.9	1.11	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	2.3	1.0	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.0	0.9	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.9	0.7	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.5	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.5	0.8	1.11	10	39.00	§1.35	4.1	2.7	0.33	.....	10
5.0	2.5	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	4.0	1.0	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	4.5	1.0	1.11	10	39.00	§1.35	4.1	2.7	0.33	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.6	0.4	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	1.8	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.2	0.7	1.11	10	22.00	§1.20	1.7	1.2	0.30	.....	10
5.0	2.0	0.6	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	3.7	0.8	1.66	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	5.0	1.0	2.22	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.4	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.8	1.11	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.5	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.5	0.5	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
4.5	1.5	0.3	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	1.8	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10

†2-wire service. ‡3-wire service.
§This rate in force early in 1949. For 1948 rate see Annual Report 1947.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1948, in Urban Municipalities**

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municip- ality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Bloomfield.....	29.81	.....	60	2.5	0.9	0.83	10
Blyth.....	29.59	.....	60	2.9	1.0	1.11	10
Bobcaygeon.....	36.45	.....	60	4.0	1.25	1.11	10
Bolton.....	26.75	.....	60	2.9	1.0	0.83	10
Bothwell.....	30.12	.....	60	2.2	0.75	0.83	10
Bowmanville..... T	23.29	.....	60	2.8	0.9	0.83	10
Bradford.....	26.12	.....	45	4.2	1.0	1.39	10
Braeside.....	22.34	.....	50	4.0	1.3	0.83	10
Brampton..... T	21.36	.....	60	2.1	0.9	0.83	10
Brantford..... C	21.34	.....	60	1.8	0.8	0.83	10
Brantford Twp.....	21.77	.....	60	2.8	1.0	1.11	10
Brechin.....	31.12	.....	45	5.5	1.2	1.67	10
Bridgeport.....	25.65	.....	60	3.0	0.9	0.83	10
Brigden.....	32.58	.....	60	3.0	0.9	1.11	10
Brighton.....	23.70	.....	60	3.5	0.9	0.83	10
Brockville..... T	21.04	.....	60	1.8	0.7	0.83	10
Brussels.....	29.84	.....	60	3.2	1.0	1.11	10
Burford.....	24.27	.....	60	2.3	0.8	0.83	10
Burgessville.....	28.26	.....	60	4.0	1.0	1.11	10
Burlington..... T	22.44	.....			Special		
Burlington Beach or Hamilton Beach....		.....	60	3.5	1.1	0.83	10
Caledonia.....	24.27	.....	60	2.1	0.9	0.83	10
Callander.....		56	40	3.5	*1.6	†1.67	10
Campbellville.....	31.09	.....	60	2.8	0.75	†2.25	10
Cannington.....	25.19	.....	60	3.2	1.0	1.11	10
Capreol.....		.....	50	3.6	1.0	1.39	10
Cardinal.....	23.49	.....	55	2.5	1.0	1.11	10
Carleton Place..... T	21.55	.....	55	2.5	0.9	0.83	10
Cayuga.....	29.45	.....	60	3.5	1.0	1.39	10
Chatham..... C	22.44	.....	60	2.8	0.8	0.83	10
Chatsworth.....	27.22	.....	50	3.0	1.0	1.39	10
Chesley.....	23.69	.....	55	2.5	0.8	1.11	10
Chesterville.....	23.68	.....	55	2.3	0.9	0.83	10
Chippawa.....	18.54	.....	60	2.0	0.8	0.83	10
Clifford.....	32.09	.....	55	3.3	1.1	1.11	10
Clinton..... T	25.11	.....	60	2.2	0.7	0.83	10
Cobden.....	32.78	.....	40	2.8	1.0	1.11	10
Cobourg..... T	23.78	.....	60	2.9	1.0	0.83	10
Colborne.....	24.66	.....	60	3.8	1.0	0.83	10
Coldwater.....	23.48	33-66	55	2.5	1.0	1.11	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	2.3	0.7	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.4	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	5.0	1.0	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.5	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	1.7	0.3	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.3	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.7	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	4.0	1.0	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	1.7	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
z5.0	1.5	0.35	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.4	0.6	1.11	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	4.8	0.8	1.67	10	34.00	1.35	3.4	2.2	0.33	.....	10
5.0	2.7	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.5	0.7	1.11	10	34.00	1.35	3.4	2.2	0.33	.....	10
5.0	3.0	0.7	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
4.5	1.6	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.7	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.8	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.5	0.8	1.11	10	31.00	1.35	2.9	1.9	0.33	.....	10
Special							Special				
5.0	3.2	0.7	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.7	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	3.5	1.0	†1.67	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.5	0.8	‡2.25	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.8	0.9	1.11	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	3.2	0.8	1.39	10	31.00	1.35	2.9	1.9	0.33	.....	10
5.0	2.0	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.0	0.7	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.0	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.2	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.5	0.9	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.7	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.0	0.9	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	1.6	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.5	1.0	1.11	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	1.9	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.5	1.0	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.4	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.0	1.0	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.5	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10

†2-wire service. ‡3-wire service. zMinimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1948, in Urban Municipalities**

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
Collingwood.....T	\$ c. 21.97	cents	55	2.3	0.9	\$ c. 0.83	% 10
Comber.....	30.35		60	2.9	0.8	0.83	10
Cookstown.....	24.39		45	4.3	1.0	1.39	10
Cottage Cove Townsite.....			40	3.5	*1.6	†1.67	
Cottam.....	29.51	56	60	3.0	0.75	‡2.25	10
Courtright.....	34.57		60	3.0	1.1	1.11	10
Creemore.....	26.72		50	3.1	1.0	1.39	10
Dashwood.....	29.23		60	3.5	1.0	0.83	10
Delaware.....	24.31		60	3.4	1.0	0.83	10
Delhi.....T	25.18		60	3.2	1.0	0.83	10
Deseronto.....	29.24		60	3.9	1.0	0.83	10
Dorchester.....	25.49		60	2.6	1.0	0.83	10
Drayton.....	34.06		55	4.0	1.3	1.11	10
Dresden.....	28.66		60	2.5	0.8	0.83	10
Drumbo.....	27.41		60	3.5	1.0	1.11	10
Dublin.....	31.15		60	3.5	1.1	1.11	10
Dundalk.....	25.61		60	2.7	1.0	1.11	10
Dundas.....T	20.98		60	2.2	0.8	0.83	10
Dunnville.....T	21.98		60	1.8	0.7	0.83	10
Durham.....T	25.33		55	2.5	1.0	0.83	10
Dutton.....	26.76		60	2.0	0.8	0.83	10
East York Twp.....	21.02		60	2.3	1.0	0.83	10
Elmira.....T	22.27		60	2.6	0.8	0.83	10
Elmvale.....	24.41		60	2.6	1.0	0.83	10
Elmwood.....	27.66		50	3.5	0.9	1.11	10
Elora.....	25.67		60	2.8	1.0	1.11	10
Embro.....	25.85		60	3.3	1.1	0.83	10
Erieau.....	30.15		60	3.7	1.0	1.11	10
Erie Beach.....	35.72		60	4.5	1.2	1.39	10
Erin.....			40	5.0	1.5	1.39	10
Essex.....T	26.86		60	2.3	0.8	0.83	10
Etobicoke Twp.....	21.60		60	2.5	1.0	0.83	10
Exeter.....	24.93		60	2.6	0.9	0.83	10
Fergus.....T	23.55		60	2.6	0.9	1.11	10
Finch.....	27.11		45	3.0	1.2	1.39	10
Flesherton.....	26.09		60	2.8	1.0	1.11	10
Fonthill.....	22.55		60	2.8	1.0	0.83	10
Forest.....	30.72		60	3.0	0.9	0.83	10
Forest Hill.....T	20.58		60	2.5	1.1	0.83	10
Fort William.....C	18.70		60	1.7	0.6	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	1.8	0.8	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.5	0.6	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	3.8	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	.....	10
			†1.67								
5.0	3.5	1.0	†2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.6	0.8	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	3.2	1.0	1.11	10	39.00	\$1.35	4.1	2.7	0.33	.....	10
5.0	2.6	0.9	1.39	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	3.0	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.0	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.6	0.8	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	3.5	0.9	0.83	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.1	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.4	0.7	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	3.0	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	3.0	0.8	1.11	10	34.00	1.35	3.4	2.2	0.33	.....	10
5.0	2.3	0.8	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	1.8	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.5	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	2.1	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	1.7	0.3	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.3	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.2	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	3.0	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.4	0.6	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.7	0.7	0.83	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	3.5	0.9	1.11	10	38.00	1.35	4.0	2.6	0.33	3.00	10
5.0	4.0	1.0	1.39	10	39.00	\$1.35	4.1	2.7	0.33	.....	10
5.0	4.0	1.0	1.39	10	36.00	1.35	3.7	2.4	0.33	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.9	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.1	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.2	0.4	1.11	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.8	1.0	1.39	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.3	0.8	1.11	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	2.3	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	2.5	0.6	0.83	10	29.00	1.35	2.6	1.7	0.33	.....	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.5	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10

†2-wire service. ‡3-wire service.

§This rate in force early in 1949. For 1948 rate see Annual Report 1947.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1948, in Urban Municipalities**

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Frankford.....			60	4.5	1.2	0.83	10
Galt.....C	21.49		60	2.5	0.7	0.83	10
Gamebridge.....			45	5.5	1.2	1.67	10
Georgetown.....T	24.60		60	2.5	0.9	0.83	10
Geraldton Townsite....			60	3.7	1.2	1.11	10
Glencoe.....	35.05		60	3.0	0.9	1.11	10
Glen Williams.....			60	2.9	1.0	0.83	10
Goderich.....T	26.90		60	2.7	0.9	0.83	10
Grand Valley.....	30.86		60	2.8	1.0	1.11	10
Granton.....	31.89		60	3.3	1.0	0.83	10
Gravenhurst.....T	20.75		60	1.8	0.7	0.83	10
Grimsby.....T	22.56		60	2.2	0.8	0.83	10
Guelph.....C	21.51		60	1.8	0.8	0.83	10
Hagersville.....	24.90		60	2.3	0.9	0.83	10
Hamilton.....C	20.36		60	2.0	0.7	0.83	10
Hanover.....T	21.31		60	2.4	1.0	0.83	10
Harriston.....	29.05		55	3.0	1.0	0.83	10
Harrow.....	28.15		60	3.2	1.0	0.83	10
Hastings.....	26.18		45	4.2	1.0	1.11	10
Havelock.....	27.40		60	2.8	1.0	0.83	10
Hensall.....	28.80		60	3.2	1.0	0.83	10
Hepworth.....			60	4.0	1.2	1.67	10
Hespeler.....T	21.51		60	2.7	0.8	0.83	10
Highgate.....	29.86		60	3.2	0.9	0.83	10
Hislop Townsite.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Holstein.....	39.02		60	3.0	1.0	1.11	10
Hudson Townsite.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Humberstone.....T	22.40		60	2.2	0.8	0.83	10
Huntsville.....T	22.93		60	2.0	0.9	0.83	10
Ingersoll.....T	22.37		60	2.3	0.8	0.83	10
Iroquois.....	21.44		60	2.5	1.0	0.83	10
Jarvis.....	29.17		60	2.8	0.9	0.83	10
Kearns Townsite.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Kemptville.....	24.83		55	3.2	1.0	0.83	10
Kincardine.....T	26.20		50	3.1	1.0	1.11	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	3.5	1.0	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.1	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	4.8	0.8	1.67	10	34.00	1.35	3.4	2.2	0.33	.....	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.6	0.8	1.11	10	31.00	1.35	2.9	1.9	0.33	.....	10
5.0	2.3	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.3	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.4	0.8	1.11	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.6	1.0	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.5	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.6	0.3	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	1.8	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
z5.0	1.5	0.35	0.83	10	14.50	1.00	0.9	0.56	0.25	.....	10
5.0	2.0	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.6	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.6	0.7	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	3.6	1.0	1.11	10	37.00	1.35	3.8	2.5	0.33	.....	10
5.0	2.3	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.7	0.9	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.5	1.0	1.67	10	39.00	\$1.35	4.1	2.7	0.33	.....	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.8	0.7	0.83	10	29.00	1.35	2.6	1.7	0.33	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.5	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.8	0.7	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.8	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	2.0	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	2.3	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.7	1.0	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.6	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	.....	10

†2-wire service. ‡3-wire service. zMinimum 500 watts.

§This rate in force early in 1949. For 1948 rate see Annual Report 1947.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1948, in Urban Municipalities**

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
King Kirkland Townsite		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Kingston C	19.73		50	1.8	0.6	0.83	10
Kingsville T	27.91		60	2.6	0.9	0.83	10
Kirkfield	39.02		50	5.0	1.2	1.66	10
Kitchener C	20.98		60	2.0	0.9	0.83	10
Lakefield	23.15		55	2.8	1.0	0.83	10
Lambeth	26.07		60	2.6	0.8	0.83	10
Lanark	33.70		50	3.8	1.2	0.83	10
Lancaster	31.97		60	3.0	1.0	0.83	10
La Salle	29.77		60	3.8	1.2	1.39	10
Leamington T	27.53		60	2.0	0.8	0.83	10
Leaside			50	1.8	1.0	0.83	10
Lindsay T	24.08		60	2.3	0.8	0.83	10
Listowel T	25.62		60	2.3	0.9	0.83	10
London C	21.38		60	2.2	0.75	0.83	10
London Twp.	23.33		60	2.9	1.0	1.11	10
Long Branch T	21.84		60	2.2	0.8	0.83	10
Lucan	24.89		60	2.9	0.9	0.83	10
Lucknow	28.79		55	2.7	1.0	1.39	10
Lynden	25.18		60	3.0	1.0	0.83	10
MacTier			50	4.7	1.6	1.66	10
Madoc	26.81		60	2.8	1.0	0.83	10
Markdale	23.35		60	2.0	1.0	0.83	10
Markham	24.40		60	2.8	1.0	0.83	10
Marmora	27.62		60	3.6	1.0	0.83	10
Martintown	23.45		50	3.0	1.0	1.11	10
Matachewan Townsite			50	4.5	1.0	1.11	10
Maxville	27.78		55	3.1	1.0	0.83	10
Meaford T	25.18		60	2.6	1.0	0.83	10
Merlin	28.29		60	2.8	0.9	0.83	10
Merritton T	19.16		60	2.2	0.9	0.83	10
Midland T	20.51		60	2.3	0.8	0.83	10
Mildmay	27.19		50	2.8	1.0	1.39	10
Millbrook	30.67		60	4.6	1.0	0.83	10
Milton T	22.62		60	2.8	0.9	0.83	10
Milverton	26.88		60	2.5	1.0	0.83	10
Mimico T	20.85		60	2.2	0.9	0.83	10
Mitchell	24.28		60	2.8	1.0	0.83	10
Moorefield	35.01		60	3.2	1.0	1.39	10
Mooretown Townsite		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	3.5	1.0	†1.67								
5.0	1.5	0.3	‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.9	0.5	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	4.5	1.0	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.8	0.6	1.66	10	39.00	\$1.35	4.1	2.7	0.33	.....	10
5.0			0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.4	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.3	1.0	0.83	10	38.00	1.35	4.0	2.6	0.33	.....	10
5.0	2.5	1.0	0.83	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	3.3	1.0	1.39	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.7	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
z5.0	1.9	0.35	0.83	10	18.50	1.00	1.5	0.9	0.25	.....	10
5.0	1.9	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	1.7	0.3	0.83	10	14.00	1.00	0.83	0.53	0.25	.....	10
5.0	2.5	0.6	1.11	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.4	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.2	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.5	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	4.4	1.0	1.66	10	39.00	\$1.35	4.1	2.7	0.33	.....	10
5.0	2.5	0.8	0.83	10	33.00	1.35	3.2	2.1	0.33	.....	10
5.0	1.8	0.8	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.4	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	3.2	0.9	0.83	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	3.0	1.0	1.66	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.5	1.0	†1.67								
5.0	2.8	1.0	‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.2	0.8	0.83	10	39.00	\$1.35	4.1	2.7	0.33	.....	10
5.0	2.2	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	2.3	0.6	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.6	0.5	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.4	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	4.2	1.0	0.83	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.3	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.2	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	1.9	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.3	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.8	0.9	1.39	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	3.5	1.0	†1.67								
5.0			‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10

†2-wire service. ‡3-wire service. zMinimum 500 watts.

§This rate in force early in 1949. For 1948 rate see Annual Report 1947.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1948, in Urban Municipalities**

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	c.
Morrisburg.....	21.91	.....	60	3.0	1.0	0.83	10
Mount Brydges.....	27.12	.....	60	2.4	0.8	0.83	10
Mount Forest.....	28.49	.....	60	2.8	1.0	0.83	10
Napanee..... T	22.68	.....	60	2.8	0.9	0.83	10
Neustadt.....	27.64	.....	60	3.0	1.0	1.39	10
Newburg.....	.....	.....	60	5.0	1.5	1.39	10
Newbury.....	32.11	.....	60	4.0	1.0	1.11	10
Newcastle.....	23.63	.....	60	3.0	0.9	1.11	10
New Hamburg.....	25.64	.....	60	2.7	0.9	0.83	10
Newmarket..... T	23.14	.....	60	2.4	0.8	0.83	10
New Toronto..... T	23.04	.....	60	2.2	0.8	0.83	10
Niagara Falls..... C	16.89	.....	60	1.7	0.6	0.83	10
Niagara-on-the-Lake	19.91	.....	60	2.4	1.0	0.83	10
Nipigon Twp.....	19.38	.....	60	2.8	1.0	1.11	10
Nipissing.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
North Bay..... C	.....	.....	60	2.3	0.9	0.83	10
North York Twp.....	21.66	.....	60	2.7	1.2	0.83	10
Norwich.....	24.11	.....	60	2.5	0.8	0.83	10
Norwood.....	23.37	.....	50	3.8	1.0	1.11	10
Oil Springs.....	31.23	.....	60	2.6	0.9	1.11	10
Omeme.....	24.69	.....	60	3.3	1.0	0.83	10
Orangeville..... T	25.36	.....	55	2.8	1.0	1.11	10
Orono.....	27.00	.....	60	4.5	1.0	1.11	10
Oshawa..... C	22.77	.....	60	3.0	1.0	0.83	10
Ottawa..... C	18.73	33-66	60 60	2.0 1.0	0.5	0.83	10
Otterville.....	26.41	.....	60	2.6	0.9	0.83	10
Owen Sound..... C	22.46	.....	60	2.1	0.8	0.83	10
Paisley.....	27.88	.....	50	4.0	1.0	1.39	10
Palmerston.....	27.76	.....	60	2.6	1.0	1.11	10
Paris..... T	21.49	.....	60	2.2	0.9	0.83	10
Parkhill.....	29.06	.....	60	3.0	1.0	0.83	10
Parry Sound..... T	26.76	.....	60	2.4	Special 0.9	0.83	10
Penetanguishene..... T	21.99	.....	60	2.8	1.0	0.83	10
Perth..... T	21.43	.....	55	2.8	1.0	0.83	10
Peterborough..... C	20.05	.....	60	2.0	0.9	0.83	10
Petrolia..... T	28.49	.....	60	2.7	0.8	0.83	10
Pictou..... T	24.07	.....	60	2.0	0.8	0.83	10
Plattsville.....	29.64	.....	60	3.0	1.0	0.83	10
Point Edward.....	29.14	.....	60	3.0	1.0	0.83	10
Port Arthur..... C	18.63	.....	50	1.7	0.6	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	2.7	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	1.8	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.3	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	2.4	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.5	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	4.5	1.5	1.39	10	39.00	\$1.35	4.1	2.7	0.33	.....	10
5.0	3.5	0.9	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.5	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.2	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.2	0.7	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.5	0.35	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.4	0.8	1.11	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.8	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.5	0.8	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.1	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.3	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.4	0.6	1.11	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	2.8	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.8	1.11	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	4.0	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.5	0.7	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.1	0.5	0.83	10	18.00	a1.00	1.8	1.2	0.15	.....	b10
5.0	2.2	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.5	0.8	1.39	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.2	0.8	1.11	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.5	0.8	0.83	10	29.00	1.35	2.6	1.7	0.33	.....	10
5.0	2.1	0.7	Special 0.83	10	20.00	1.20	1.4	Special 0.9	0.30	.....	10
5.0	2.0	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	1.8	0.7	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	2.1	0.5	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.5	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	2.70	10
5.0	2.4	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
4.5	1.5	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10

†2-wire service. ‡3-wire service.

§This rate in force early in 1949. For 1948 rate see Annual Report 1947.

a—\$1.00 per h.p. b—Local discount 15 & 10%.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1948, in Urban Municipalities**

Municipality C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municip- ality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr., per month			
	\$ c.	cents		cents	cents	\$ c.	%
Port Carling.....	.....	33-66	45	4.7	1.5	1.66	10
Port Colborne.....T	21.82	.....	60	2.5	0.8	0.83	10
Port Credit.....T	22.19	.....	60	2.1	0.9	0.83	10
Port Dalhousie.....	20.95	.....	60	2.4	1.0	0.83	10
Port Dover.....T	26.18	.....	60	2.2	0.8	0.83	10
Port Elgin.....	29.08	33-66	40	2.5	1.2	1.11	10
Port Hope.....T	23.31	.....	60	2.2	0.9	0.83	10
Port McNicoll.....	22.89	.....	60	3.3	1.0	0.83	10
Port Perry.....	27.49	.....	50	4.0	1.2	1.11	10
Port Rowan.....	33.11	.....	60	3.0	1.0	0.83	10
Port Stanley.....	28.18	.....	60	2.6	0.9	0.83	10
Powassan.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Prescott.....T	22.12	.....	60	2.5	1.1	0.83	10
Preston.....T	21.25	.....	60	2.5	0.8	0.83	10
Priceville.....	32.86	.....	60	3.5	1.0	1.39	10
Princeton.....	31.05	.....	60	3.0	1.0	1.39	10
Queenston.....	19.76	.....	60	2.3	0.9	0.83	10
Ramore-Matheson....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Red Lake Townsite...	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Red Rock.....	19.55	.....	60	3.0	1.1	†1.67 ‡2.22	10
Renfrew.....T	23.73	.....	45	3.5	1.0	0.83	10
Richmond.....	32.84	.....	40	4.3	1.2	1.67	10
Richmond Hill.....	22.75	.....	60	2.2	0.8	0.83	10
Ridgetown.....T	25.71	.....	60	2.0	0.8	0.83	10
Ripley.....	36.06	.....	55	4.8	1.0	1.67	10
Riverside.....T	26.21	.....	60	2.8	0.9	0.83	10
Rockwood.....	25.34	.....	60	2.8	1.0	0.83	10
Rodney.....	30.63	.....	60	2.4	0.8	0.83	10
Rosseau.....	39.02	.....	60	4.0	2.0	2.22	10
Russell.....	28.69	.....	55	4.6	1.2	1.39	10
St. Catharines.....C	19.15	.....	60	1.8	0.8	0.83	10
St. Clair Beach.....	28.97	.....	60	3.5	1.0	1.11	10
St. George.....	26.13	.....	60	2.5	0.9	0.83	10
St. Jacobs.....	22.51	.....	60	2.4	0.9	0.83	10
St. Marys.....T	25.31	.....	60	3.0	1.0	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt pay- ment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt pay- ment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	4.5	0.8	1.66	10	32.00	1.35	3.1	2.0	0.33		10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25		10
5.0	1.8	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25		10
5.0	1.9	0.6	0.83	10	16.00	1.00	1.1	0.7	0.25		10
5.0	1.7	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25		10
5.0	2.5	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33		10
5.0	1.9	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25		10
5.0	2.8	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33		10
5.0	3.2	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33		10
5.0	2.5	0.8	0.83	10	28.00	1.35	2.5	1.6	0.33		10
5.0	2.2	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30		10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33		10
5.0	2.2	1.0	0.83	10	19.00	1.00	1.5	1.1	0.25		10
5.0	2.0	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25		10
5.0	3.0	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33		10
5.0	2.7	0.8	1.39	10	24.00	1.20	2.1	1.4	0.30		10
5.0	1.8	0.7	0.83	10	22.00	1.20	1.7	1.2	0.30		10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33		10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33		10
5.0	3.0	1.0	†1.67 ‡2.22	10	21.00	1.20	1.6	1.0	0.30		10
5.0	2.0	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30		10
5.0	4.0	1.0	1.67	10	35.00	1.35	3.5	2.3	0.33		10
5.0	1.8	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25		10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25		10
5.0	4.3	0.8	1.67	10	30.00	1.35	2.8	1.8	0.33		10
5.0	2.3	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30		10
5.0	2.3	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33		10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30		10
5.0	4.0	2.0	2.22	10	39.00	\$1.35	4.1	2.7	0.33		10
5.0	4.3	1.0	1.39	10	35.00	1.35	3.5	2.3	0.33		10
z5.0	1.5	½	a0.83	10	14.00	1.00	0.825	0.525	0.25		10
5.0	3.2	0.9	1.11	10	30.00	1.35	2.8	1.8	0.33		10
5.0	2.0	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30		10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25		10
5.0	2.5	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30		10

†2-wire service. ‡3-wire service. a \$0.83 or \$0.83 per kw. zMinimum 500 watts.
§This rate in force early in 1949. For 1948 rate see Annual Report 1947.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1948, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City t—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
St. Thomas.....C	22.58	.....	60	2.4	0.8	0.83	10
Sarnia.....C	26.38	.....	60	2.5	0.8	0.83	10
Scarborough Twp....	22.39	.....	60	2.3	0.9	0.83	10
Schreiber.....	.....	.....	60	5.0	2.0	3.89	10
Seaforth.....	24.28	.....	60	2.6	1.0	0.83	10
Shelburne.....	25.76	.....	60	2.7	1.0	1.11	10
Simcoe.....T	22.31	.....	60	2.0	0.7	0.83	10
Sioux Lookout.....T	.....	.....	60	4.0	1.5	2.00	10
Smiths Falls.....T	20.49	.....	60	2.5	0.8	0.83	10
Smithville.....	23.83	.....	60	3.0	0.9	0.83	10
Southampton.....	28.50	.....	40	3.2	1.0	1.11	10
Springfield.....	30.76	.....	60	3.4	0.9	0.83	10
Stamford Twp.....	16.89	.....	60	2.3	0.8	0.83	10
Stayner.....	23.63	.....	55	3.0	1.0	0.83	10
Stirling.....	20.08	.....	60	2.3	0.9	0.83	10
Stoney Creek.....	23.02	.....	60	3.5	1.1	0.83	10
Stouffville.....	24.69	.....	60	2.1	0.8	0.83	10
Stratford.....C	22.68	.....	60	2.6	0.9	0.83	10
Strathroy.....T	23.24	.....	60	2.6	0.8	0.83	10
Streetsville.....	23.52	.....	60	2.8	1.0	0.83	10
Sudbury.....C	.....	.....	60	2.4	1.0	0.83	10
Sunderland.....	26.22	.....	60	3.5	1.0	1.11	10
Sutton.....	29.81	.....	60	2.7	1.0	1.11	10
Swansea.....T	23.45	.....	60	2.1	0.9	0.83	10
Tara.....	28.79	.....	55	2.6	1.0	1.11	10
Tavistock.....	25.00	.....	60	2.5	0.9	0.83	10
Tecumseh.....T	27.39	.....	60	3.0	0.9	0.83	10
Teeswater.....	28.72	.....	60	3.0	1.0	1.11	10
Terrace Bay.....	38.01	56	40	3.5	*1.6	†1.67	10
Thamesford.....	25.39	.....	60	2.7	0.75	‡2.25	10
Thamesville.....	26.92	.....	60	2.1	0.8	0.83	10
Thedford.....	37.58	.....	60	3.6	1.0	0.83	10
Thornbury.....	31.04	.....	60	3.5	1.0	0.83	10
Thorndale.....	28.23	.....	60	3.8	1.0	0.83	10
Thornton.....	31.86	.....	60	3.8	1.0	1.39	10
Thorold.....T	19.53	.....	60	1.8	0.7	0.83	10
Tilbury.....T	25.62	.....	60	2.0	0.75	0.83	10
Tillsonburg.....	22.98	.....	60	2.2	0.75	0.83	10
Toronto.....C	20.55	.....	50	1.8	1.0	0.83	10
Toronto Twp.....	22.48	.....	60	2.7	1.0	1.11	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	1.7	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	1.9	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	1.8	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	5.0	2.0	3.89	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.1	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.3	0.9	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.5	2.0	a1.00	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.3	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.5	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.8	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.9	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.5	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.3	0.9	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.8	0.8	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.2	0.7	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.8	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.0	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.3	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.4	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.0	0.8	1.11	10	33.00	1.35	3.2	2.1	0.33	.....	10
5.0	2.4	0.7	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.2	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.5	0.5	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	2.6	0.8	1.11	10	34.00	1.35	3.4	2.2	0.33	.....	10
5.0	3.5	1.0	+1.67	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.1	0.6	+2.25	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.7	0.4	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.2	0.7	0.83	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	3.0	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.2	0.9	0.83	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	3.3	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.3	0.35	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.7	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
z5.0	1.9	0.35	0.83	10	18.50	1.00	1.5	0.9	0.25	.....	10
5.0	2.2	0.6	1.11	10	20.00	bD.C.	3.2	1.2	0.60	.....	10
5.0	2.2	0.6	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10

a Per 100 watts—min. \$2.00, max. \$5.00. z Minimum 500 watts.

b D.C.—Service charge \$1.50 per kw per month for first 7½ kw plus \$1.05 per kw for all additional demand.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1948, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
Tottenham.....	\$ c. 36.68	cents	50	3.5	1.0	1.39	10
Trafalgar Twp.....	24.92	a28	60	3.5	1.5	b0.83	10
Trenton.....T	18.93		60	1.8	0.6	0.83	10
Tweed.....	29.66		50	3.8	1.0	0.83	10
Uxbridge.....	28.64		60	3.1	1.0	1.11	10
Victoria Harbour.....	27.29		60	2.4	0.9	1.11	10
Walkerton.....T	21.32		50	3.2	1.1	1.11	10
Wallaceburg.....T	24.12		60	2.6	0.8	0.83	10
Wardsville.....	33.21		60	3.6	0.9	1.11	10
Warkworth.....	30.84		50	3.5	1.2	1.11	10
Waterdown.....	23.34		60	2.2	0.8	0.83	10
Waterford.....	23.29		60	2.1	0.8	0.83	10
Waterloo.....C	21.22		60	1.8	0.7	0.83	10
Watford.....	29.61		60	3.0	1.0	0.83	10
Waubashene.....	22.73		55	3.0	1.0	1.11	10
Welland.....C	19.11		60	1.7	0.6	0.83	10
Wellesley.....	26.81		60	2.8	1.0	0.83	10
Wellington.....	24.36		60	2.7	1.0	0.83	10
West Lorne.....	27.63		60	2.4	0.8	0.83	10
Weston.....T	20.77		60	2.0	0.8	0.83	10
Westport.....	31.20		50	4.0	1.0	1.94	10
Wheatley.....	32.76		60	2.5	0.8	0.83	10
Whitby.....T	22.26		60	2.5	0.9	0.83	10
Warton.....T	30.74		50	2.8	0.9	1.11	10
Williamsburg.....	23.01		60	2.0	0.8	0.83	10
Winchester.....	23.49		60	2.3	1.0	0.83	10
Windermere.....	36.73		60	4.0	1.5	2.22	10
Windsor.....C	23.49		60	2.6	0.7	0.83	10
Wingham.....T	26.93		50	3.2	1.1	1.11	10
Woodbridge.....	23.24		60	2.4	0.8	0.83	10
Woodstock.....C	21.50		60	2.3	0.75	0.83	10
Woodville.....	30.26		50	3.8	1.0	1.11	10
Wyoming.....	32.12		60	3.0	0.9	0.83	10
York Twp.....	20.43		60	2.0	0.8	0.83	10
Zurich.....	32.08		60	3.6	1.0	0.83	10

a Service charge in former Area No. 2. b Under 10 kw, 83 cents; over 10 kw \$2.22 in former Area No. 1; under 10 kw, \$1.11; over 10 kw \$2.22 in former Area No. 2.

“C”—Concluded

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	3.0	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	\$ c.	%
5.0	2.8	0.7	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	1.6	0.3	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.3	1.0	0.83	10	29.00	1.35	2.6	1.7	0.33	.....	10
5.0	2.7	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	2.0	0.7	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.4	0.9	1.11	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	3.2	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.0	1.0	1.11	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	1.6	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.6	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	2.2	1.0	1.11	10	33.00	1.35	3.2	2.1	0.33	.....	10
5.0	1.5	0.3	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	2.4	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	2.3	0.8	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	1.5	0.4	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	3.5	1.0	1.94	10	39.00	\$1.35	4.1	2.7	0.33	.....	10
5.0	2.4	0.5	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.0	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	2.3	0.8	1.11	10	33.00	1.35	3.2	2.1	0.33	.....	10
5.0	2.0	0.8	0.83	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	1.8	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	4.0	1.5	2.22	10	39.00	\$1.35	1.1	2.7	0.33	.....	10
5.0	2.1	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.6	0.8	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.0	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.8	0.8	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.5	0.6	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.1	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10

§This rate in force early in 1949. For 1948 rate see Annual Report 1947.

STATEMENT "D"

**Statistics Relating to the Supply of Electrical Energy to
Consumers in Urban Municipalities Served by
The Hydro-Electric Power Commission**

Regarding the results of Hydro operation from the standpoint of the consumers, the following tabulation gives much useful and interesting information. For each main class of service in each urban municipal utility receiving power at cost from the Commission, Statement "D" lists the revenue, the consumption and the number of consumers, together with unit average costs and consumptions and other pertinent data.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or on account of the small quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D" respecting the average cost to the consumer. It will be observed that the total amount of energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D", and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 45 horsepower. The Commission serves certain large power consumers direct on behalf of the systems of municipalities.

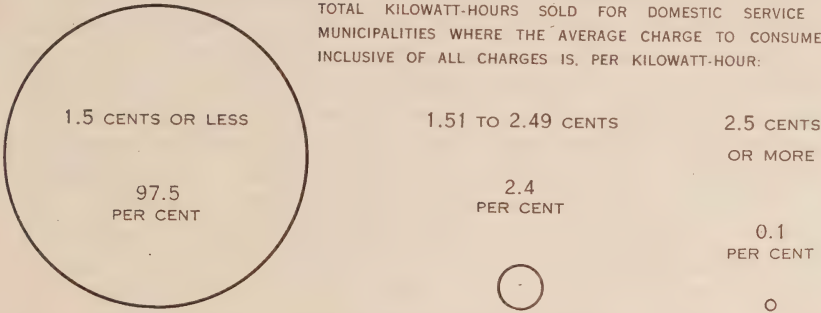
It should be kept in mind that the revenues reported in Statement "D", and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and provide, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should also be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average cost per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE TO CONSUMERS
IN MUNICIPALITIES SERVED BY
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

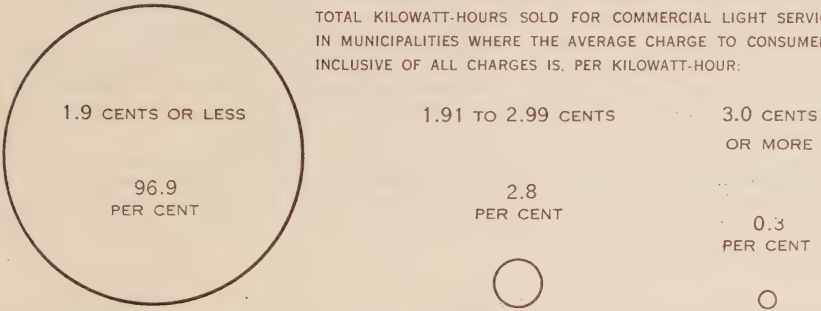
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



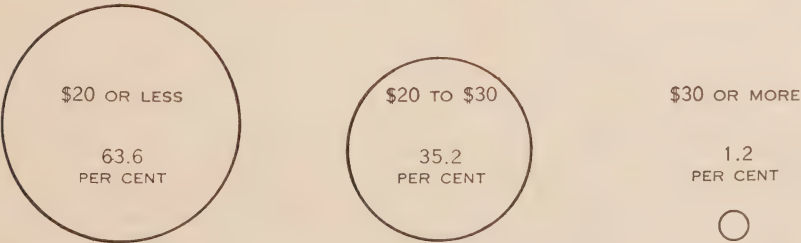
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



With respect to domestic service, for example, instances may be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 50 per cent or more. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour to the consumer, and *vice versa*.*

*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community a lower "average revenue per kilowatt-hour."

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	\$	kw-hr.	cents	\$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	....	130,000	10,000,000	....	142,500
Average revenue....	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to consumers therefore the actual *rates schedules* of Statement "C" should be employed and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "C", or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) suburban areas densely populated; (iii) towns of 2,000 to 10,000 population; or (iv) small towns less than 2,000 population, villages, and suburban areas in townships. The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the maps at the end of the Report.

A feature of the electrical service in Ontario municipalities served by The Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. All of the 117 cities and towns and suburban areas with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 105 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, 86 in excess of 2,000 kilowatt-hours, and 47 in excess of 3,000 kilowatt-hours. In addition 170 smaller urban municipalities have an average annual consumption per domestic consumer exceeding 1,000 kilowatt-hours, including 71 in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; the rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 0.8 to 1.2 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from \$2.00 to \$3.00 to obtain the benefit of a follow-up rate of 1.8 cents net or less. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario. Low flat rates are also available for continuous electric water heaters.

STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group I—CITIES

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Belleville.....	S.O.	16,976	141,121.80	19,790,577	4,546	366	2.61	0.71
Brantford.....	S.O.	35,815	235,657.92	27,559,596	9,280	247	2.12	0.86
Chatham.....	S.O.	19,315	131,290.02	9,373,145	5,193	150	2.11	1.41
Fort William.....	T.B.	32,187	316,770.37	60,813,148	8,715	581	3.03	0.52
Galt.....	S.O.	16,741	144,517.31	15,204,165	4,936	257	2.40	0.95
Guelph.....	S.O.	25,077	169,093.21	18,450,193	6,413	240	2.22	0.92
Hamilton.....	S.O.	179,565	1,112,910.97	119,292,412	46,717	213	1.99	0.93
Kingston.....	S.O.	31,596	280,907.27	35,834,193	9,223	324	2.54	0.78
Kitchener.....	S.O.	39,722	318,526.17	33,816,650	10,006	282	2.65	0.94
London.....	S.O.	87,319	684,319.30	76,385,152	22,656	281	2.52	0.90
Niagara Falls.....	S.O.	21,304	142,748.35	18,912,959	5,471	288	2.17	0.75
North Bay.....	N.O.P.	17,631	138,818.57	13,387,860	3,980	280	2.91	1.04
Oshawa.....	S.O.	27,924	299,565.24	25,064,107	7,650	273	3.26	1.19
Ottawa.....	S.O.	164,266	763,944.33	94,153,799	16,849	466	3.78	0.81
Owen Sound.....	S.O.	15,782	124,309.44	11,879,500	4,374	226	2.35	1.04
Peterborough.....	S.O.	33,796	272,014.57	32,193,059	8,744	306	2.59	0.84
Port Arthur.....	T.B.	27,679	221,712.94	31,729,160	7,677	344	2.41	0.70
St. Catharines.....	S.O.	35,436	238,646.86	27,873,847	9,801	237	2.03	0.86
St. Thomas.....	S.O.	18,808	167,757.54	18,555,665	5,019	308	2.79	0.90
Sarnia.....	S.O.	22,842	163,478.63	13,670,981	5,963	191	2.28	1.19
Stratford.....	S.O.	18,288	182,344.53	17,077,841	4,885	291	3.11	1.07
Sudbury.....	N.O.P.	37,640	327,730.95	26,715,305	9,347	238	2.92	1.23
Toronto.....	S.O.	695,303	4,712,575.71	501,379,591	156,356	267	2.51	0.94
Toronto D.C. & 60 cycle*			7,416.46	255,100	125	170	4.94	2.91
Waterloo.....	S.O.	10,408	88,138.62	11,040,169	2,644	348	2.78	0.80
Welland.....	S.O.	15,423	62,004.59	6,808,262	3,463	164	1.49	0.91
Windsor.....	S.O.	118,533	819,633.75	76,938,685	27,995	229	2.44	1.07
Woodstock.....	S.O.	13,164	112,638.53	12,149,648	3,847	263	2.44	0.93

GROUP II—VOTED AREAS adjacent to

Brantford Township.....	S.O.	6,800	73,868.60	6,577,114	2,314	237	2.66	1.12
East York Township.....	S.O.	51,555	418,255.89	37,580,049	13,969	224	2.50	1.11
Etobicoke Township.....	S.O.	28,258	383,666.80	40,460,206	9,540	353	3.35	0.95
London Township.....	S.O.	1,900	21,062.58	1,854,080	614	252	2.86	1.14
North York Township....	S.O.	33,162	425,595.19	39,054,007	11,960	272	2.97	1.09
Scarborough Township...	S.O.	31,447	232,578.48	17,336,494	8,554	169	2.27	1.34
Stamford Township.....	S.O.	11,738	100,906.13	11,347,357	3,233	292	2.60	0.89
Toronto Township.....	S.O.	14,913	173,723.24	15,501,042	4,331	298	3.34	1.12
York Township.....	S.O.	87,840	642,561.96	65,269,613	24,626	221	2.17	0.98

*This—with the exception of a relatively small D.C. power load—is a special service not created by The Hydro-Electric Power Commission but acquired through the purchase of a privately-owned company. It does not include street railway power.

“D”

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1948

Population, 10,000 or more

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
78,068.69	7,342,680	715	855	9.08	1.06	65,647.98	116	4,500.1	5,377
122,672.24	12,956,891	1,509	716	6.77	0.95	380,951.70	242	23,621.0	11,031
130,740.13	8,748,675	940	775	11.59	1.50	137,806.53	144	7,559.0	6,277
133,742.09	15,555,797	1,324	979	8.42	0.86	117,274.66	154	7,350.5	10,193
75,476.20	4,846,759	588	687	10.70	1.56	192,745.07	147	10,668.2	5,671
69,735.81	5,843,682	796	612	7.30	1.19	189,423.06	169	11,811.5	7,378
613,928.18	58,352,836	6,129	793	8.35	1.05	3,151,180.99	1,202	172,818.2	54,048
158,636.89	14,144,448	1,184	996	11.02	1.12	200,369.23	202	11,739.9	10,609
162,012.61	12,045,400	1,241	809	10.88	1.34	586,698.25	337	29,807.4	11,584
276,315.98	23,435,957	2,676	730	8.60	1.18	611,638.78	478	36,608.0	25,810
87,476.12	8,282,612	865	798	8.43	1.06	126,397.99	128	7,758.3	6,464
71,594.44	5,302,550	742	596	8.04	1.35	69,346.18	99	2,933.7	4,821
100,678.76	5,736,280	828	577	10.13	1.75	401,204.56	135	18,152.3	8,613
348,027.47	24,884,410	1,703	1,218	17.03	1.40	114,980.86	221	6,654.1	18,773
68,110.26	4,679,308	650	600	8.70	1.45	102,224.31	117	5,999.8	5,141
115,951.91	8,807,550	1,198	612	8.06	1.31	292,776.29	204	16,350.0	10,146
123,611.06	12,220,241	1,068	954	9.65	1.01	326,137.65	152	22,615.5	8,897
116,354.42	10,812,208	1,279	704	7.58	1.08	402,823.08	243	26,358.1	11,323
69,036.95	6,068,984	632	800	9.10	1.14	100,497.62	92	6,172.5	5,743
84,843.65	6,206,247	725	713	9.75	1.37	366,482.53	106	10,864.6	6,794
69,133.89	4,102,749	655	522	8.80	1.68	84,804.26	135	5,012.0	5,675
158,706.32	9,422,681	1,249	629	10.59	1.68	62,442.16	141	2,892.7	10,737
3,182,981.46	260,825,318	24,722	879	10.73	† 1.22	5,316,678.31	5,067	262,078.0	186,145
41,318.72	1,133,340	212	445	16.24	3.65	240,598.90	620	10,053.0	957
30,585.89	2,807,343	285	821	8.94	1.09	100,692.33	84	5,491.6	3,013
49,901.76	4,659,497	542	716	7.67	1.07	198,941.73	99	11,910.8	4,104
468,932.35	35,822,159	3,652	817	10.70	1.31	848,804.27	573	48,500.6	32,220
65,874.38	5,258,838	540	812	10.17	1.25	121,548.34	123	7,833.0	4,510

cities and which are predominantly urban.

11,464.97	755,625	109	578	8.77	1.52	12,611.03	14	629.8	2,437
43,920.85	3,315,244	524	527	6.98	1.33	66,916.81	71	3,412.0	14,564
67,238.84	5,076,700	619	683	9.05	1.33	117,525.54	109	6,131.2	10,268
2,978.28	184,674	18	855	13.79	1.61	1,715.82	4	83.1	636
63,574.49	3,760,956	733	428	7.23	1.69	121,373.20	120	6,456.4	12,813
47,605.44	3,387,270	679	416	5.84	1.41	59,525.57	83	2,960.8	9,316
22,790.61	1,460,746	225	541	8.44	1.56	27,173.26	29	2,018.4	3,487
33,735.87	2,078,102	301	575	9.34	1.62	62,920.22	56	3,063.4	4,688
109,827.51	8,306,481	1,358	510	6.74	1.32	223,817.14	288	12,522.5	26,272

NOTE—The above groups comprising 27 cities and 9 suburban areas adjacent to the larger cities, utilize about 80 per cent of the power distributed by the Commission to Ontario municipalities.

†Does not include street railway power.

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—TOWNS

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Acton.....	S.O.	2,367	22,483.75	2,259,184	686	274	2.73	1.00
Alexandria.....	S.O.	2,160	12,766.20	756,380	526	120	2.02	1.69
Almonte.....	S.O.	2,517	22,103.12	2,049,873	710	241	2.59	1.08
Amherstburg.....	S.O.	3,280	33,003.13	3,186,459	857	310	3.21	1.04
Arnprior.....	S.O.	4,316	28,444.39	2,431,516	1,036	196	2.29	1.17
Aurora.....	S.O.	3,396	34,269.65	3,142,426	899	291	3.18	1.09
Aylmer.....	S.O.	3,164	22,532.07	2,189,724	861	212	2.18	1.02
Barrie.....	S.O.	11,286	110,157.96	11,348,826	2,897	326	3.17	0.98
Blenheim.....	S.O.	2,265	12,549.60	920,806	648	118	1.59	1.35
Bowmanville.....	S.O.	4,243	45,757.57	4,032,667	1,314	256	2.90	1.13
Brampton.....	S.O.	6,152	67,915.89	6,915,923	1,902	303	2.98	0.98
Brockville.....	S.O.	11,854	89,750.41	9,905,554	3,469	214	2.16	0.91
Burlington.....	S.O.	4,943	57,706.71	4,543,735	1,464	259	3.28	1.27
Carleton Place.....	S.O.	4,307	31,278.83	2,748,381	1,209	189	2.16	1.14
Clinton.....	S.O.	2,248	20,468.78	2,091,196	698	250	2.44	0.98
Cobourg.....	S.O.	6,017	56,824.20	4,765,634	1,617	246	2.93	1.19
Collingwood.....	S.O.	6,799	46,118.89	3,727,006	1,928	161	1.99	1.24
Delhi.....	S.O.	2,330	20,388.62	1,327,207	730	152	2.33	1.53
Dundas.....	S.O.	5,933	35,438.68	2,909,364	1,599	152	1.85	1.22
Dunnville.....	S.O.	4,398	18,617.48	1,549,480	1,178	110	1.32	1.20
Durham.....	S.O.	2,129	12,013.45	848,583	526	134	1.88	1.42
Elmira.....	S.O.	2,367	21,420.62	1,959,120	650	251	2.75	1.09
Essex.....	S.O.	2,214	12,106.87	857,930	645	111	1.56	1.41
Fergus.....	S.O.	3,051	26,451.67	2,235,530	830	224	2.66	1.18
Forest Hill.....	S.O.	15,500	244,907.79	26,722,930	4,163	535	4.90	0.92
Georgetown.....	S.O.	3,080	37,245.55	3,409,810	1,085	262	2.86	1.09
Goderich.....	S.O.	*4,488	48,633.42	4,044,038	1,531	220	2.65	1.20
Gravenhurst.....	S.O.	*2,731	19,920.28	2,252,298	885	213	1.87	0.88
Grimsby.....	S.O.	2,414	22,681.80	1,333,428	741	150	2.55	1.70
Hanover.....	S.O.	3,535	32,611.63	2,466,892	973	197	2.60	1.32
Hespeler.....	S.O.	3,527	25,663.96	2,198,800	936	196	2.28	1.17
Humberstone.....	S.O.	3,300	16,069.41	1,220,123	869	117	1.54	1.32
Huntsville.....	S.O.	*3,177	24,587.80	2,576,125	798	269	2.57	0.95
Ingersoll.....	S.O.	6,140	45,279.56	4,303,740	1,974	182	1.91	1.05
Kincardine.....	S.O.	*2,630	21,888.66	1,358,093	842	134	2.16	1.61
Kingsville.....	S.O.	*2,431	19,571.24	1,491,768	720	173	2.26	1.31
Leamington.....	S.O.	*6,524	40,799.73	3,640,503	1,991	158	1.71	1.08
Lindsay.....	S.O.	8,497	76,318.01	7,182,640	2,527	237	2.52	1.06
Listowel.....	S.O.	3,095	27,387.08	2,547,006	955	222	2.39	1.08
Long Branch.....	S.O.	6,286	52,770.69	5,406,219	1,986	227	2.21	0.98

*Does not include Summer population.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1948

population 2,000 or more

Commercial Light service						Power service			Total number of consumers	
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power		
\$	c.	kw-hr.	kw-hr.	\$	c.	cents	\$	c.		
9,245.64		656,355	105	521	7.34	1.41	38,549.33	22	1,942.2	813
9,706.00		476,885	136	292	5.95	2.04	7,410.90	18	261.9	680
9,318.81		539,290	117	384	6.64	1.73	17,553.70	26	923.8	853
14,426.96		1,166,477	177	549	6.79	1.24	13,676.24	23	762.1	1,057
15,885.13		917,669	177	432	7.48	1.73	26,338.58	29	1,440.7	1,242
11,984.01		914,891	133	573	7.51	1.31	28,395.95	25	1,433.1	1,057
16,022.40		1,251,410	190	552	7.03	1.28	22,386.48	24	1,157.4	1,075
59,141.18		4,171,877	489	711	10.08	1.42	55,617.72	74	2,999.5	3,460
12,610.16		841,887	168	417	6.26	1.50	12,024.87	22	629.9	838
15,384.84		859,600	201	356	6.37	1.78	72,370.04	30	3,092.2	1,545
26,856.76		1,979,174	316	522	7.08	1.36	28,069.79	66	1,540.6	2,284
37,177.57		3,461,035	453	637	6.84	1.07	134,130.34	86	7,298.1	4,008
25,038.35		1,362,527	200	568	10.43	1.83	20,863.40	20	768.8	1,684
14,082.73		800,499	211	316	5.56	1.76	34,519.56	20	1,826.0	1,440
10,778.43		719,148	141	425	6.37	1.49	7,741.39	20	407.2	859
27,286.68		1,618,643	268	503	8.48	1.68	41,384.18	61	2,121.0	1,946
21,239.12		1,415,533	325	366	5.45	1.50	43,562.15	62	2,560.9	2,315
17,783.01		840,642	201	349	7.37	2.11	7,432.77	18	364.7	949
22,430.31		1,556,573	227	571	8.23	1.44	45,710.34	45	3,114.5	1,871
18,047.05		1,405,459	275	426	5.47	1.28	25,047.94	31	1,156.0	1,484
7,005.10		401,817	115	291	4.95	1.75	7,166.90	18	312.1	659
14,017.67		847,842	140	505	8.34	1.65	36,444.72	31	1,689.5	821
12,165.84		929,480	141	549	7.19	1.31	8,663.91	21	627.5	807
10,538.47		665,998	128	434	6.86	1.58	23,577.59	17	1,232.8	975
41,072.07		2,898,533	353	684	9.70	1.42	5,283.17	37	306.3	4,553
14,169.86		865,859	161	448	7.33	1.64	57,685.53	31	2,724.3	1,277
24,261.82		1,506,778	296	424	6.83	1.61	23,875.57	36	1,224.8	1,863
12,667.05		1,313,921	131	836	8.06	0.96	20,785.39	21	1,140.4	1,037
17,192.73		1,045,457	148	589	9.68	1.64	14,583.76	19	594.3	908
11,661.65		715,429	159	375	6.11	1.63	30,707.94	30	1,481.7	1,162
10,658.83		636,925	102	520	8.71	1.67	79,019.87	37	3,640.0	1,075
8,416.28		586,972	116	422	6.05	1.43	7,317.39	15	425.5	1,000
19,503.05		1,411,300	152	773	10.69	1.38	17,201.65	22	1,114.9	972
24,623.02		1,687,110	263	535	7.80	1.46	55,269.09	53	5,362.7	2,290
11,626.20		497,271	144	288	6.74	2.34	17,019.48	20	678.7	1,006
13,829.72		879,073	186	394	6.20	1.57	6,100.93	24	377.5	930
26,640.23		2,127,360	364	487	6.10	1.25	36,233.87	48	1,904.3	2,403
46,811.49		2,828,719	435	542	8.97	1.65	48,104.69	77	2,817.0	3,039
16,680.84		1,018,440	187	454	7.43	1.64	21,702.96	33	1,135.2	1,175
13,453.55		994,483	202	410	5.55	1.35	31,361.20	23	1,799.8	2,211

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—TOWNS

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw.-hr.
			\$ c.	kw.-hr.		kw.-hr.	\$ c.	cents
Meaford.....	S.O.	2,858	21,720.13	1,511,665	851	148	2.13	1.44
Merritton.....	S.O.	3,716	25,383.14	2,446,185	1,108	184	1.91	1.04
Midland.....	S.O.	*6,887	51,213.54	4,251,170	1,926	184	2.21	1.20
Milton.....	S.O.	2,218	20,397.98	1,685,510	651	216	2.61	1.21
Mimico.....	S.O.	9,894	86,442.94	8,666,112	2,607	277	2.76	1.00
Napanee.....	S.O.	3,512	35,672.19	3,107,928	1,026	252	2.90	1.14
Newmarket.....	S.O.	4,264	41,790.50	3,966,651	1,295	255	2.69	1.05
New Toronto.....	S.O.	8,729	64,891.63	6,786,704	2,246	252	2.41	0.96
Orangeville.....	S.O.	2,840	25,461.32	1,896,930	838	189	2.53	1.34
Paris.....	S.O.	5,035	34,546.16	3,355,364	1,301	215	2.21	1.03
Parry Sound.....	S.O.	4,556	42,916.31	1,930,763	1,330	121	2.69	2.22
Penetanguishene.....	S.O.	4,594	20,556.25	1,542,686	952	135	1.80	1.33
Perth.....	S.O.	4,475	40,095.88	3,206,541	1,282	208	2.61	1.25
Petrolia.....	S.O.	2,931	18,001.37	1,165,750	867	112	1.72	1.54
Pictou.....	S.O.	3,471	34,992.80	3,500,055	1,268	230	2.29	1.00
Port Colborne.....	S.O.	7,578	39,031.60	2,973,335	1,789	138	1.82	1.31
Port Credit.....	S.O.	2,425	28,376.92	3,282,000	753	363	3.14	0.86
Port Dover.....	S.O.	*2,029	15,910.14	1,218,140	897	113	1.48	1.31
Port Hope.....	S.O.	5,104	52,426.65	5,214,378	1,733	250	2.52	1.00
Prescott.....	S.O.	3,252	28,922.56	2,409,894	865	212	2.79	1.20
Preston.....	S.O.	7,230	54,663.69	5,231,590	1,870	233	2.44	1.05
Renfrew.....	S.O.	6,074	44,518.50	2,918,843	1,581	154	2.35	1.53
Ridgetown.....	S.O.	2,113	11,615.02	878,972	675	109	1.43	1.32
Riverside.....	S.O.	6,772	58,480.65	4,683,204	1,941	201	2.51	1.25
St. Marys.....	S.O.	3,820	43,140.12	3,703,835	1,188	260	3.03	1.16
Simcoe.....	S.O.	6,829	34,751.93	3,164,490	1,879	140	1.54	1.10
Sioux Lookout.....	S.O.	2,155	22,817.62	943,140	650	121	2.93	2.42
Smiths Falls.....	S.O.	8,155	72,687.58	7,275,196	2,318	262	2.61	0.99
Strathroy.....	S.O.	3,227	34,404.91	3,151,700	1,041	252	2.75	1.09
Swansea.....	S.O.	7,313	82,014.45	8,315,329	2,224	312	3.07	0.99
Tecumseh.....	S.O.	*3,224	19,631.12	1,202,370	848	118	1.93	1.64
Thorold.....	S.O.	5,989	26,197.47	2,798,470	1,413	165	1.54	0.94
Tilbury.....	S.O.	2,165	12,440.82	1,075,560	690	130	1.50	1.15
Tillsonburg.....	S.O.	4,707	31,156.65	2,676,386	1,438	155	1.80	1.16
Trenton.....	S.O.	9,218	58,609.25	7,902,774	2,328	282	2.09	0.74
Walkerton.....	S.O.	2,954	27,156.01	1,503,684	850	147	2.65	1.80
Wallaceburg.....	S.O.	6,611	39,954.95	2,726,466	1,850	123	1.80	1.47
Weston.....	S.O.	6,789	73,334.09	9,109,708	1,940	391	3.15	0.81
Whitby.....	S.O.	4,611	44,696.87	4,211,162	1,232	284	3.02	1.06
Warton.....	S.O.	2,016	11,856.82	809,173	518	130	1.95	1.47
Wingham.....	S.O.	2,302	22,536.14	1,591,181	661	200	2.84	1.42

*Does not include Summer population.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1948

population 2,000 or more—Continued

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
13,977.75	782,740	190	343	6.13	1.78	16,245.51	26	770.8	1,067
6,794.35	423,239	74	477	7.65	1.60	224,366.38	23	11,973.4	1,205
25,404.53	1,703,369	241	589	8.78	1.49	79,818.49	65	5,000.0	2,232
10,018.67	629,868	120	437	6.96	1.59	34,974.83	20	1,526.0	791
18,347.11	1,362,154	141	805	10.84	1.35	19,576.90	36	1,023.2	2,784
26,650.10	1,612,336	242	555	9.17	1.65	15,416.21	29	846.0	1,297
22,506.85	1,330,541	209	531	8.97	1.69	28,608.94	40	1,380.3	1,544
26,101.96	2,458,661	273	751	7.97	1.06	262,293.97	53	13,514.5	2,572
18,207.53	1,088,915	250	363	6.06	1.67	8,361.38	33	568.1	1,121
12,286.72	997,261	200	416	5.12	1.23	29,557.34	29	1,869.5	1,530
27,135.84	1,356,288	201	562	11.25	2.00	7,078.95	10	325.4	1,541
11,708.45	757,874	129	489	7.56	1.54	27,050.08	22	1,252.0	1,103
22,352.23	1,405,781	220	532	8.47	1.59	22,081.03	36	1,287.0	1,538
12,900.86	748,428	187	334	5.75	1.72	27,220.28	59	1,069.1	1,113
24,535.51	1,914,399	270	591	7.57	1.28	12,356.11	42	806.9	1,580
26,666.27	1,735,891	261	554	8.51	1.54	26,037.26	28	1,329.1	2,078
10,663.47	784,284	106	617	8.38	1.36	9,083.53	15	448.7	874
9,630.40	644,916	164	328	4.89	1.49	8,148.10	24	500.8	1,085
22,726.25	1,586,330	243	544	7.79	1.43	59,764.67	47	3,075.0	2,023
15,681.60	930,405	166	467	7.87	1.69	11,711.17	26	687.6	1,057
25,473.27	1,778,335	250	593	8.49	1.43	68,045.75	60	4,151.6	2,180
19,907.93	1,162,302	250	387	6.64	1.71	52,031.30	66	2,412.1	1,897
11,334.90	703,071	163	359	5.79	1.61	8,825.40	24	536.7	862
10,257.66	692,011	95	607	9.00	1.48	8,603.46	15	408.2	2,051
18,687.52	969,795	200	404	7.79	1.93	27,871.41	39	1,369.4	1,427
41,592.02	3,719,227	425	729	8.16	1.12	36,737.86	63	1,572.3	2,367
17,207.92	550,020	111	413	12.92	3.14	2,752.15	7	104.8	768
32,577.33	2,411,114	329	611	8.25	1.35	36,445.68	42	1,993.4	2,689
17,104.90	1,130,617	202	466	7.05	1.51	20,660.88	38	1,322.1	1,281
14,470.68	990,276	134	616	9.00	1.46	29,820.17	22	1,447.8	2,380
7,403.35	436,730	88	414	7.01	1.69	4,681.23	6	206.1	942
10,638.20	1,176,951	178	551	4.98	0.91	60,630.72	34	3,198.4	1,625
9,724.96	666,680	149	373	5.44	1.46	15,987.03	18	1,177.1	857
28,753.52	2,075,064	320	540	7.49	1.39	26,792.26	44	1,526.4	1,802
26,336.69	2,271,994	315	601	6.99	1.15	101,507.64	62	4,910.7	2,705
18,925.94	988,719	175	471	9.00	1.91	14,101.41	21	534.5	1,046
24,918.65	1,748,661	305	478	6.81	1.42	179,140.63	61	8,095.1	2,216
20,795.46	1,708,486	249	572	6.96	1.22	79,674.85	45	4,514.0	2,234
17,825.90	1,196,399	189	527	7.85	1.48	21,704.90	34	1,011.8	1,455
10,380.30	571,665	123	387	7.00	1.82	10,823.37	25	349.0	666
15,804.94	782,440	163	400	8.04	2.01	26,795.09	22	957.6	846

STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group IV—SMALL TOWNS (less than 2,000 population)

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Agincourt	S.O.	P.V.	8,670.37	758,628	200	316	3.61	1.1
Ailsa Craig	S.O.	470	3,923.89	281,700	167	140	1.95	1.4
Alliston	S.O.	1,950	17,537.94	1,205,650	502	200	2.91	1.4
Alvinston	S.O.	694	4,063.93	149,475	233	53	1.45	2.7
Ancaster Township	S.O.	V.A.	16,659.79	1,015,951	376	225	3.70	1.6
Apple Hill	S.O.	P.V.	1,716.11	59,447	74	67	1.93	2.9
Arkona	S.O.	395	4,246.23	220,595	132	139	2.68	1.9
Arthur	S.O.	1,172	8,162.01	371,822	303	102	2.24	2.2
Athens	S.O.	801	6,143.11	202,220	210	80	2.44	3.0
Ayr	S.O.	800	7,461.44	565,460	248	190	2.51	1.3
Baden	S.O.	P.V.	5,392.15	468,040	172	227	2.61	1.2
Bath	S.O.	*335	4,306.51	145,140	90	134	3.98	3.0
Beachville	S.O.	P.V.	5,357.70	401,290	188	178	2.37	1.3
Beamsville	S.O.	1,508	15,712.68	1,835,907	480	319	2.73	0.9
Beaverton	S.O.	*906	9,745.64	694,740	375	154	2.16	1.4
Beeton	S.O.	614	4,814.87	248,205	165	125	2.43	1.9
Belle River	S.O.	1,194	8,322.92	475,300	398	100	1.74	1.7
Bloomfield	S.O.	633	4,529.57	327,000	197	138	1.95	1.4
Blyth	S.O.	838	5,318.89	313,790	185	141	2.40	1.7
Bobcaygeon	S.O.	1,064	10,959.39	438,136	435	84	2.10	2.5
Bolton	S.O.	748	7,449.60	653,325	220	247	2.82	1.1
Bothwell	S.O.	734	3,458.91	249,900	209	100	1.38	1.4
Bradford	S.O.	1,307	11,180.13	673,970	350	160	2.66	1.7
Braeside	S.O.	419	2,364.17	110,078	101	90	1.95	2.1
Brechin	S.O.	P.V.	2,206.04	97,290	70	116	2.63	2.3
Bridgeport	S.O.	P.V.	7,260.81	520,525	227	191	2.67	1.4
Brigden	S.O.	P.V.	2,605.61	128,530	137	78	1.58	2.0
Brighton	S.O.	1,875	14,618.69	1,209,950	533	189	2.28	1.2
Brussels	S.O.	766	6,792.57	380,420	275	115	2.06	1.8
Burford	S.O.	P.V.	7,786.76	766,639	265	241	2.45	1.0
Burgessville	S.O.	P.V.	2,328.46	128,563	63	170	3.08	1.8
Caledonia	S.O.	1,485	9,657.68	665,580	483	115	1.67	1.5
Campbellville	S.O.	P.V.	2,110.68	151,370	64	197	2.75	1.4
Cannington	S.O.	808	7,408.47	442,462	288	128	2.14	1.7
Capreol	N.O.P.	1,736	16,555.22	1,059,470	482	183	2.86	1.6

*Does not include Summer population.

“D”—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1948

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
2,772.15	127,383	36	295	5.26	1.8	2,402.74	5	124.2	241
1,325.21	63,188	34	154	3.25	2.1	2,158.13	4	103.2	205
9,576.19	459,944	127	302	6.28	2.8	9,139.68	23	439.0	652
3,425.52	145,747	58	209	4.92	2.4	1,680.31	5	57.1	296
5,532.84	249,808	50	416	9.22	2.2	1,437.11	10	94.5	436
1,054.92	45,374	28	135	3.14	2.3	320.04	1	19.6	103
2,060.83	75,431	38	165	4.51	2.7	317.96	2	9.8	172
6,982.21	291,901	90	270	6.48	2.4	1,815.15	7	104.1	400
3,105.03	127,830	53	201	4.88	2.4	890.97	2	47.6	265
3,662.90	186,630	49	317	6.23	1.9	6,343.91	9	268.9	306
2,675.98	163,049	32	425	6.97	1.6	8,054.96	3	486.3	207
1,026.72	33,360	14	198	6.11	3.1	198.63	1	26.0	105
796.26	43,404	26	139	2.55	1.8	19,347.52	4	795.8	214
6,808.86	477,211	88	452	6.45	1.4	3,181.71	9	198.3	577
4,545.10	247,450	74	278	5.12	1.8	2,712.57	10	174.6	459
3,646.82	150,931	42	299	7.23	2.4	565.40	6	29.8	213
4,531.80	286,758	63	379	5.99	1.6	2,342.08	6	77.8	467
2,929.05	142,180	47	252	5.19	2.1	1,871.36	8	85.5	252
2,842.49	145,643	51	238	4.64	2.0	2,564.68	7	104.1	243
7,402.66	267,473	83	268	7.43	2.8	1,506.72	6	53.5	524
3,575.97	160,250	52	257	5.73	2.2	3,803.79	16	186.4	288
2,887.25	208,137	64	271	3.76	1.4	1,241.70	10	121.5	283
10,185.52	530,766	88	503	9.65	1.9	9,048.78	17	433.9	455
506.08	21,470	9	199	4.69	2.4	6,109.68	3	260.0	113
1,358.49	40,502	32	105	3.54	3.3	746.98	2	30.7	104
2,302.13	127,313	26	408	7.38	1.8	2,906.49	5	138.6	258
2,029.00	89,360	46	162	3.68	2.3	3,838.60	6	156.1	189
7,155.92	437,948	125	292	4.77	1.6	5,824.04	10	350.4	668
3,705.45	197,005	68	241	4.54	1.9	3,527.56	8	130.2	351
3,126.92	212,356	48	369	5.43	1.5	2,456.70	6	148.4	319
842.59	40,332	19	177	3.69	2.1	1,691.23	3	79.2	85
7,097.95	552,291	112	411	5.28	1.3	3,100.46	10	153.4	605
576.50	31,679	11	240	4.37	1.8	388.75	1	9.0	76
3,680.19	152,152	75	169	4.09	2.4	3,701.03	13	199.5	376
4,677.99	224,530	61	307	6.39	2.1	9,060.03	2	281.6	545

STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service							
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.		
			\$	c.	kw-hr.		kw-hr.	\$	c.	cents
Cardinal.....	S.O.	1,755	11,729.	88	914,370	419	182	2.33	1.3	
Cayuga.....	S.O.	704	5,692.	40	264,336	214	103	2.22	2.2	
Chatsworth.....	S.O.	396	3,457.	74	220,080	126	146	2.34	1.6	
Chesley.....	S.O.	1,731	13,134.	04	1,146,957	492	194	2.13	1.1	
Chesterville.....	S.O.	1,157	7,328.	57	633,895	307	172	1.99	1.2	
Chippawa.....	S.O.	1,423	10,066.	48	1,084,121	434	208	1.93	0.9	
Clifford.....	S.O.	461	3,984.	27	250,750	145	144	2.29	1.6	
Cobden.....	S.O.	670	4,748.	96	231,869	208	93	1.90	2.5	
Colborne.....	S.O.	1,033	11,073.	77	741,659	302	204	3.05	1.5	
Coldwater.....	S.O.	593	5,070.	35	353,670	170	173	2.48	1.4	
Comber.....	S.O.	P.V.	2,709.	24	137,490	153	75	1.48	2.0	
Cookstown.....	S.O.	P.V.	3,455.	66	153,095	139	92	2.07	2.3	
Cottam.....	S.O.	P.V.	3,891.	72	235,080	155	126	2.09	1.7	
Courtright.....	S.O.	385	2,350.	55	105,459	122	72	1.61	2.2	
Creemore.....	S.O.	752	5,423.	36	314,270	204	128	2.21	1.7	
Dashwood.....	S.O.	P.V.	3,513.	52	219,931	118	148	2.48	1.7	
Delaware.....	S.O.	P.V.	3,218.	23	257,618	82	262	3.27	1.2	
Deseronto.....	S.O.	1,171	12,875.	81	692,410	441	131	2.49	1.9	
Dorchester.....	S.O.	P.V.	4,124.	18	316,787	162	163	2.12	1.3	
Drayton.....	S.O.	585	5,201.	62	245,744	181	113	2.40	2.1	
Dresden.....	S.O.	1,935	9,850.	00	595,890	560	89	1.47	1.7	
Drumbo.....	S.O.	P.V.	3,590.	66	218,403	110	165	2.72	1.6	
Dublin.....	S.O.	P.V.	2,263.	88	103,940	71	122	2.66	2.2	
Dundalk.....	S.O.	755	5,669.	79	358,880	236	127	2.03	1.6	
Dutton.....	S.O.	818	4,027.	08	304,600	247	103	1.36	1.3	
Elmvale.....	S.O.	P.V.	5,452.	39	445,196	218	170	2.08	1.2	
Elmwood.....	S.O.	P.V.	1,743.	11	66,260	94	59	1.53	2.6	
Flora.....	S.O.	1,293	11,331.	14	793,574	390	170	2.42	1.4	
Embro.....	S.O.	462	5,695.	08	367,677	147	208	3.23	1.6	
Erieau.....	S.O.	*297	6,874.	91	401,279	247	135	2.32	1.7	
Erie Beach.....	S.O.	*50	1,998.	71	54,383	98	46	1.70	3.7	
Exeter.....	S.O.	1,980	26,195.	13	2,334,826	709	274	3.08	1.1	
Finch.....	S.O.	372	3,723.	26	242,290	133	152	2.33	1.5	
Flesherton.....	S.O.	468	3,183.	89	181,790	144	105	1.84	1.7	
Fonthill.....	S.O.	1,148	10,581.	17	835,813	346	201	2.55	1.3	
Forest.....	S.O.	1,709	18,644.	60	1,513,550	568	222	2.74	1.2	
Glencoe.....	S.O.	881	5,637.	88	299,290	265	94	1.77	1.9	
Grand Valley.....	S.O.	661	4,903.	61	304,900	209	121	1.94	1.6	
Granton.....	S.O.	P.V.	2,582.	03	154,196	90	143	2.39	1.7	
Hagersville.....	S.O.	1,604	9,477.	66	648,470	463	117	1.71	1.5	

*Does not include Summer population.

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1948

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
3,399.82	203,750	64	265	4.43	1.7	443.93	3	28.0	486
5,926.39	247,471	76	271	6.50	2.4	6,370.86	12	287.8	302
2,643.44	148,285	38	325	5.80	1.8				164
6,224.80	417,611	93	374	5.61	1.5	9,552.58	25	523.3	610
5,659.02	331,930	72	384	6.55	1.7	7,151.16	5	283.7	384
2,909.11	224,893	48	390	5.05	1.3	1,071.59	3	59.8	485
2,996.89	136,250	40	284	6.24	2.2	824.40	2	25.1	187
4,041.90	169,456	63	224	5.35	2.4	4,258.04	5	159.8	276
6,505.31	320,950	81	330	6.69	2.0	1,354.58	6	62.8	389
2,695.95	116,317	52	186	4.32	2.3	4,463.78	5	182.2	227
2,870.70	143,686	53	226	4.51	2.0	3,549.08	8	176.4	214
1,918.67	71,781	37	162	4.32	2.7	1,456.94	4	71.3	180
2,113.99	102,660	32	267	5.50	2.1	1,033.39	5	86.1	192
977.76	45,524	23	165	3.54	2.1	580.32	1	12.5	146
2,780.53	161,370	56	240	4.14	1.7	1,387.74	3	97.2	263
1,740.69	76,245	26	244	5.58	2.3	1,495.49	3	72.9	147
1,334.19	79,947	18	370	6.18	1.7				100
5,125.94	175,180	62	235	6.88	2.9	4,752.63	13	196.7	516
1,355.84	61,400	32	160	3.53	2.2	1,200.17	2	55.7	196
3,601.49	127,230	55	193	5.46	2.8	2,001.93	7	96.9	243
10,338.39	622,861	145	358	5.94	1.7	13,829.94	19	732.2	724
2,264.72	89,324	39	191	4.84	2.5	646.08	1	34.4	150
1,843.30	80,669	32	210	4.80	2.3	1,897.94	2	83.6	105
4,783.72	211,034	83	212	4.87	2.3	3,451.76	8	202.5	327
3,081.98	200,096	70	238	3.67	1.5	4,177.30	10	220.3	327
3,097.36	198,547	56	295	4.61	1.5	4,211.83	8	181.9	282
1,205.33	42,224	21	167	4.68	2.8	3,072.19	2	104.3	117
5,845.29	305,192	70	363	6.96	1.9	8,411.19	6	423.0	466
1,405.43	72,948	34	179	3.44	1.9	2,068.51	4	83.1	185
3,153.89	145,846	29	419	9.06	2.0	5,394.90	4	152.2	280
355.53	9,362	5	156	5.92	3.8				103
13,983.86	894,886	152	491	7.67	1.6	7,451.72	22	472.8	883
2,670.12	137,293	37	309	6.01	1.9	1,346.97	3	46.7	173
2,475.89	106,223	51	174	4.02	2.3	1,262.93	2	60.3	197
2,974.92	144,222	44	273	5.63	2.1	1,179.60	6	60.0	396
10,629.45	630,662	136	386	6.51	1.7	6,790.41	21	335.7	725
6,558.45	367,397	89	344	6.14	1.8	4,107.66	12	195.5	366
3,144.44	145,010	56	216	4.75	2.2	2,806.05	9	143.0	274
1,394.07	68,839	30	190	3.87	2.0	207.76	1	10.0	121
8,665.28	531,775	140	317	5.16	1.6	23,175.64	18	1,441.2	621

STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service							
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.		
			\$	c.	kw-hr.		kw-hr.	\$	c.	cents
Harriston.....	S.O.	1,545	11,575.	45	837,469	408	171	2.36	1.4	
Harrow.....	S.O.	1,304	17,939.	42	1,442,401	407	295	3.67	1.2	
Hastings.....	S.O.	*800	7,253.	85	371,990	301	103	2.00	1.9	
Havelock.....	S.O.	1,156	6,948.	96	396,876	329	100	1.76	1.8	
Hensall.....	S.O.	697	6,892.	09	456,820	227	165	2.54	1.5	
Highgate.....	S.O.	342	2,266.	92	106,670	114	78	1.66	2.1	
Holstein.....	S.O.	P.V.	1,426.	30	76,970	69	93	1.77	1.9	
Iroquois.....	S.O.	1,009	10,412.	46	972,982	339	239	2.56	1.7	
Jarvis.....	S.O.	569	3,542.	71	190,549	173	92	1.71	1.8	
Kemptville.....	S.O.	1,412	12,516.	94	882,735	440	167	2.37	1.4	
Kirkfield.....	S.O.	P.V.	1,058.	82	35,345	41	68	2.15	3.0	
Lakefield.....	S.O.	1,634	11,773.	18	863,314	447	160	2.20	1.4	
Lambeth.....	S.O.	P.V.	5,284.	96	465,467	174	223	2.53	1.1	
Lanark.....	S.O.	737	5,391.	51	228,242	218	87	2.06	2.4	
Lancaster.....	S.O.	554	2,577.	13	137,695	132	87	1.63	1.9	
La Salle.....	S.O.	1,400	15,814.	22	1,212,139	374	270	3.52	1.3	
Lucan.....	S.O.	P.V.	7,698.	10	657,260	237	231	2.71	1.2	
Lucknow.....	S.O.	951	7,948.	96	485,760	360	112	1.80	1.6	
Lynden.....	S.O.	P.V.	4,118.	60	311,708	114	228	3.01	1.3	
Madoc.....	S.O.	1,138	8,541.	58	552,106	349	132	2.04	1.5	
Markdale.....	S.O.	830	5,503.	95	468,000	242	161	1.93	1.2	
Markham.....	S.O.	1,283	12,590.	69	924,610	393	196	2.67	1.4	
Marmora.....	S.O.	1,093	7,067.	07	350,530	287	102	2.05	2.0	
Martintown.....	S.O.	P.V.	1,697.	32	108,420	72	125	1.96	1.6	
Maxville.....	S.O.	815	4,754.	19	280,255	200	117	1.98	1.7	
Merlin.....	S.O.	P.V.	2,735.	19	152,492	147	86	1.55	1.8	
Mildmay.....	S.O.	743	6,015.	23	453,383	220	172	2.24	1.3	
Millbrook.....	S.O.	727	7,297.	25	352,870	220	133	2.76	2.1	
Milverton.....	S.O.	1,027	8,196.	88	631,252	295	178	2.32	1.3	
Mitchell.....	S.O.	1,863	20,030.	90	1,700,989	585	242	2.85	1.2	
Moorefield.....	S.O.	P.V.	1,742.	17	89,740	72	104	2.02	1.9	
Morrisburg.....	S.O.	*1,768	14,616.	07	1,017,429	497	171	2.45	1.4	
Mt. Brydges.....	S.O.	P.V.	3,380.	36	244,498	192	106	1.47	1.4	
Mt. Forest.....	S.O.	1,807	14,747.	84	960,660	545	147	2.21	1.5	
Neustadt.....	S.O.	447	2,940.	38	139,748	143	81	1.70	2.1	
Newbury.....	S.O.	277	2,118.	65	96,051	90	89	1.96	2.2	
Newcastle.....	S.O.	*760	7,529.	44	523,428	256	170	2.45	1.4	
New Hamburg.....	S.O.	1,530	14,435.	34	1,343,756	432	259	2.78	1.1	
Niagara-on-the-Lake.....	S.O.	1,781	26,171.	41	2,733,940	725	314	3.01	1.0	
Nipigon Township.....	T.B.	V.A.	11,183.	64	847,774	343	206	2.72	1.3	

*Does not include Summer population

"D"—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1948

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
8,439.72	421,883	110	320	6.39	2.0	11,914.94	17	533.7	535
9,633.04	610,637	109	467	7.36	1.6	5,611.29	8	268.5	524
4,750.12	177,650	66	224	6.00	2.7	209.94	3	15.2	370
3,518.10	150,951	61	206	4.81	2.3	1,927.45	2	67.9	392
3,511.92	134,820	60	187	4.88	2.6	5,616.57	18	265.3	305
1,083.11	44,560	31	120	2.91	2.4	1,884.36	7	92.4	152
564.81	29,020	17	166	3.15	1.9	885.63	2	35.5	88
4,129.54	229,555	62	309	5.55	1.8	1,896.29	6	80.9	407
3,113.25	181,590	45	336	5.76	1.7	3,725.96	4	141.7	222
7,534.05	384,866	83	386	7.56	2.0	5,326.91	7	220.9	530
1,468.11	50,735	19	223	6.44	2.9				60
8,344.79	508,839	88	482	7.90	1.6	7,273.97	12	369.9	547
1,417.24	89,118	29	256	4.07	1.6	1,113.19	6	48.3	209
3,834.07	156,721	46	284	6.95	2.4	1,374.75	3	39.7	267
1,742.66	82,910	35	197	4.15	2.1				167
3,444.72	119,341	22	452	13.05	2.9	820.60	3	18.6	406
3,210.96	166,465	54	257	4.96	1.9	1,249.64	4	69.7	295
4,288.23	201,658	109	154	3.23	2.1	15,878.39	12	532.4	481
832.81	34,540	14	206	4.96	2.4	1,380.56	3	105.1	131
6,250.17	342,982	104	275	5.01	1.8	3,849.63	6	146.4	459
4,074.39	358,133	78	383	4.21	1.1	3,296.58	10	182.1	330
5,981.01	419,885	81	432	6.15	1.4	3,918.22	13	201.9	487
3,285.23	168,840	45	313	6.08	1.9	625.64	1	45.3	333
1,636.71	52,361	28	156	4.87	3.1	126.16	1	4.6	101
3,052.61	131,437	50	219	5.09	2.3				250
2,469.24	113,733	61	155	3.37	2.2	1,627.35	3	73.0	211
4,084.70	171,282	64	223	5.35	2.4	2,329.54	6	78.6	290
3,269.24	83,425	70	99	3.89	3.9	1,825.73	5	55.1	295
5,859.96	289,709	84	287	5.81	2.0	6,591.71	13	432.5	392
9,948.30	623,908	141	369	5.88	1.6	10,506.59	29	587.4	755
1,699.48	73,910	33	187	4.29	2.3	1,571.67	1	51.0	106
10,478.20	533,651	146	316	5.98	1.9	6,789.03	27	347.1	670
1,420.83	67,972	45	126	2.63	2.1	1,315.80	5	73.5	242
11,609.19	634,725	155	341	6.14	1.8	8,943.27	18	489.6	718
1,506.35	67,778	28	202	4.44	2.2	963.52	4	29.6	175
1,400.88	68,351	24	237	4.86	2.1	288.29	1	18.4	115
2,891.88	175,130	41	356	5.87	1.6	4,883.15	9	190.6	306
7,336.19	424,306	114	310	5.36	1.7	10,657.40	15	519.8	561
8,753.22	554,545	109	424	6.69	1.6	2,663.76	14	168.1	848
9,704.49	695,114	88	658	9.19	1.4	1,187.79	5	63.6	436

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Norwich.....	S.O.	1,300	13,230.10	1,264,182	427	247	2.58	1.0
Norwood.....	S.O.	840	7,555.84	451,000	256	146	2.46	1.6
Oil Springs.....	S.O.	426	2,853.85	188,249	124	127	1.92	1.5
Omeme.....	S.O.	608	5,341.69	306,450	204	125	2.18	1.7
Orono.....	S.O.	P.V.	6,950.82	343,222	207	138	2.78	2.0
Otterville.....	S.O.	P.V.	4,604.41	380,680	179	177	2.14	1.2
Paisley.....	S.O.	730	6,184.03	308,715	238	108	2.16	2.0
Palmerston.....	S.O.	1,497	15,705.40	1,329,630	457	242	2.86	1.2
Parkhill.....	S.O.	970	9,447.95	679,820	375	151	2.10	1.4
Plattsville.....	S.O.	P.V.	4,035.51	121,763	129	79	2.61	3.3
Point Edward.....	S.O.	1,537	10,513.55	592,410	417	118	2.10	1.8
Port Dalhousie.....	S.O.	*1,750	29,697.42	3,018,083	779	323	3.18	1.0
Port Elgin.....	S.O.	*1,450	18,977.58	1,026,429	617	139	2.50	1.8
Port McNicoll.....	S.O.	*890	5,584.82	257,339	265	81	1.76	2.2
Port Perry.....	S.O.	1,407	14,379.60	754,192	452	139	2.65	1.9
Port Rowan.....	S.O.	700	4,079.52	194,125	226	72	1.50	2.1
Port Stanley.....	S.O.	*930	22,077.33	1,722,140	898	160	2.05	1.3
Priceville.....	S.O.	P.V.	967.55	42,510	50	71	1.63	2.3
Princeton.....	S.O.	P.V.	3,645.45	241,950	103	196	2.95	1.5
Queenston.....	S.O.	P.V.	3,608.17	407,218	89	381	3.38	0.9
Red Rock.....	T.B.	I.D.	7,851.08	545,900	162	355	5.10	1.4
Richmond.....	S.O.	494	4,004.40	232,680	119	152	2.62	1.7
Richmond Hill.....	S.O.	1,677	18,162.90	2,022,151	527	320	2.87	0.9
Ripley.....	S.O.	429	4,536.03	206,427	144	119	2.61	2.2
Rockwood.....	S.O.	P.V.	5,686.44	406,770	192	177	2.47	1.4
Rodney.....	S.O.	850	4,736.86	298,324	296	84	1.33	1.6
Rosseau.....	S.O.	*210	2,299.83	63,107	79	67	2.43	3.6
Russell.....	S.O.	P.V.	4,702.05	223,504	128	146	3.06	2.1
St. Clair Beach.....	S.O.	*350	4,372.65	278,690	132	176	2.76	1.6
St. George.....	S.O.	P.V.	4,291.53	304,777	186	137	1.92	1.4
St. Jacobs.....	S.O.	P.V.	5,201.76	486,400	153	265	2.83	1.1
Seaforth.....	S.O.	1,899	17,995.51	1,513,000	574	220	2.61	1.2
Shelburne.....	S.O.	1,158	8,610.43	543,670	356	127	2.03	1.6
Smithville.....	S.O.	P.V.	4,537.80	282,940	200	118	1.89	1.6
Southampton.....	S.O.	*1,713	15,764.14	1,119,946	673	139	1.95	1.4
Springfield.....	S.O.	504	3,234.89	174,216	128	113	2.11	1.9
Stayner.....	S.O.	1,106	9,180.02	581,204	342	142	2.24	1.6
Stirling.....	S.O.	1,061	9,868.41	949,203	336	235	2.44	1.0
Stoney Creek.....	S.O.	*1,268	17,882.90	1,333,180	400	278	3.73	1.3
Stouffville.....	S.O.	1,438	12,082.24	1,149,270	478	200	2.11	1.1

*Does not include Summer population.

“D”—Continued

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1948

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw.-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw.-hr.		kw.-hr.	\$ c.	cents	\$ c.			
6,975.35	354,007	95	311	6.11	2.0	2,173.76	9	167.8	531
4,498.11	171,410	71	201	5.28	2.6	3,067.45	4	135.4	331
1,666.84	76,992	40	160	3.47	2.2	5,534.66	33	171.7	197
1,074.36	55,594	25	185	3.58	1.9	5,206.21	8	231.3	237
2,522.42	89,268	46	161	4.57	2.8	158.26	4	6.3	257
2,957.10	144,880	62	195	3.97	2.0	716.31	9	53.8	250
3,921.79	182,675	60	254	5.33	2.1	2,149.50	7	94.1	305
7,526.63	368,126	101	304	6.21	2.0	10,169.10	20	657.6	578
5,900.02	293,460	97	252	5.07	2.0	4,385.80	12	175.7	484
2,377.28	99,423	26	319	7.62	2.4	3,702.71	2	131.1	157
4,158.34	166,180	54	286	6.42	2.5	61,720.13	14	2,372.8	485
7,264.08	543,380	79	573	7.66	1.3	9,202.77	15	729.6	873
10,637.83	497,370	144	288	6.05	2.1	4,689.81	8	240.8	769
1,350.14	55,982	24	194	4.69	2.4	210.74	1	2.5	290
7,944.31	312,324	95	274	6.97	2.5	3,785.10	12	173.2	559
3,813.77	208,944	68	256	4.67	1.8	37.67	1	3.8	295
8,500.23	490,128	126	324	5.62	1.7	7,111.47	10	306.8	1,034
248.95	6,110	9	56	2.30	4.1	322.82	2	8.9	61
1,194.70	49,540	23	179	4.33	2.4	3,354.34	4	118.8	130
2,339.57	158,158	19	694	10.26	1.5	.....	.....	.....	108
2,523.32	121,850	16	802	16.60	2.1	487.18	3	30.0	181
1,868.42	77,570	25	259	6.23	2.4	.....	.....	.....	144
5,749.74	392,923	88	372	5.44	1.5	2,369.43	14	176.1	629
2,286.55	62,908	53	99	3.56	3.6	973.11	1	40.7	198
2,146.37	100,764	39	215	4.59	2.1	67.98	2	4.0	233
3,609.47	153,269	69	185	4.36	2.4	2,863.37	8	141.0	373
1,247.38	37,987	14	226	7.42	3.3	655.20	1	22.0	94
2,637.96	89,162	33	225	6.66	3.0	200.71	1	5.2	162
2,254.69	116,000	14	690	13.42	1.9	240.49	1	15.0	146
2,771.69	162,878	39	348	5.92	1.7	3,358.19	3	141.0	228
2,816.77	150,255	38	330	6.18	1.9	4,785.50	9	271.1	200
12,065.12	683,243	124	459	8.11	1.7	19,291.68	21	999.7	719
5,587.83	332,000	92	301	5.12	1.7	3,553.67	13	205.7	461
4,624.37	244,412	63	323	6.11	1.9	12,385.24	11	616.5	274
7,583.94	340,937	101	281	6.18	2.2	10,970.57	14	433.3	788
1,215.29	43,071	28	128	3.62	2.8	1,926.81	5	84.5	161
5,531.77	260,308	96	226	4.80	2.1	3,325.30	20	242.5	458
4,757.50	262,203	88	248	4.50	1.8	2,527.03	15	174.2	439
7,612.42	338,401	69	409	9.19	2.2	2,855.16	9	133.0	478
6,631.71	419,815	100	350	5.53	1.6	4,113.14	10	235.0	588

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population)

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Streetsville	S.O.	822	9,627.14	772,314	247	261	3.25	1.2
Sunderland	S.O.	P.V.	4,974.76	289,070	174	138	2.38	1.7
Sutton	S.O.	*1,075	12,354.45	591,690	620	80	1.66	2.1
Tara	S.O.	511	3,905.77	252,245	178	118	1.77	1.5
Tavistock	S.O.	1,075	11,398.18	1,078,540	325	277	2.92	1.1
Teeswater	S.O.	843	5,916.80	354,137	247	119	2.02	1.7
Terrace Bay	T.B.	I.D.	9,670.46	818,998	212	351	4.15	1.2
Thamesford	S.O.	P.V.	5,989.70	540,693	167	270	2.99	1.1
Thamesville	S.O.	794	4,826.16	336,948	284	99	1.42	1.4
Thedford	S.O.	579	4,610.07	228,262	192	99	2.00	2.0
Thornbury	S.O.	801	7,692.99	419,600	297	118	2.16	1.8
Thorndale	S.O.	P.V.	3,009.72	184,772	89	173	2.82	1.6
Thornton	S.O.	P.V.	1,757.70	66,780	72	77	2.03	2.6
Tottenham	S.O.	550	5,012.74	289,710	177	136	2.36	1.7
Trafalgar Township	S.O.	V.A.	37,555.35	2,170,760	753	240	4.16	1.7
Tweed	S.O.	1,600	11,477.40	687,143	370	154	2.58	1.7
Uxbridge	S.O.	1,515	15,808.37	1,056,615	512	172	2.57	1.5
Victoria Harbour	S.O.	*940	5,079.68	244,690	318	64	1.33	2.1
Wardsville	S.O.	315	2,428.90	140,515	84	139	2.41	1.7
Warkworth	S.O.	P.V.	3,555.30	170,020	162	87	1.83	2.1
Waterdown	S.O.	1,035	9,049.62	857,880	317	226	2.38	1.1
Waterford	S.O.	1,460	10,194.17	833,881	472	147	1.80	1.2
Watford	S.O.	1,022	11,338.99	810,560	333	203	2.84	1.4
Waubashene	S.O.	P.V.	5,292.01	282,620	274	86	1.61	1.9
Wellesley	S.O.	P.V.	3,873.32	256,415	154	139	2.10	1.5
Wellington	S.O.	*1,014	9,445.79	642,490	379	141	2.08	1.5
West Lorne	S.O.	960	5,682.92	424,839	275	129	1.72	1.3
Westport	S.O.	675	5,316.22	265,290	173	128	2.56	2.0
Wheatley	S.O.	872	5,743.55	430,370	273	131	1.75	1.3
Williamsburg	S.O.	P.V.	2,241.15	226,680	96	197	1.95	1.0
Winchester	S.O.	1,101	9,484.33	770,761	334	192	2.37	1.2
Windermere	S.O.	*118	2,566.01	78,340	79	83	2.71	3.3
Woodbridge	S.O.	1,246	11,575.42	1,125,764	349	269	2.76	1.0
Woodville	S.O.	416	3,245.19	173,468	130	111	2.08	2.0
Wyoming	S.O.	617	3,477.68	179,500	192	78	1.51	1.9
Zurich	S.O.	P.V.	5,019.22	286,396	187	128	2.24	1.8

*Does not include Summer population.

“D”—Concluded

in Ontario Municipalities Served by the Commission
and for Power Service during the year 1948

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of co- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
4,413.68	245,054	59	346	6.23	1.8	15,233.27	9	655.5	315
2,313.62	103,426	42	205	4.59	2.2	2,683.96	2	105.6	218
9,964.16	496,710	101	410	8.22	2.0	2,655.26	9	108.7	730
1,935.54	114,396	40	239	4.06	1.7	1,772.69	7	73.5	225
5,842.11	291,518	100	243	4.87	2.0	9,328.27	10	452.4	435
3,925.29	186,601	63	246	5.17	2.1	2,405.72	6	122.2	316
698.18	33,962	8	386	7.93	2.1	4,493.28	2	381.6	222
2,119.06	115,833	45	215	3.92	1.8	3,145.66	5	140.6	217
4,214.87	274,490	101	226	3.48	1.5	3,480.35	7	187.9	392
3,594.32	151,982	67	189	4.47	2.4	2,697.88	3	103.8	262
4,276.98	177,951	70	212	5.09	2.4	3,959.35	14	254.2	381
1,038.04	39,266	25	131	3.46	2.6	2,299.16	3	91.2	117
559.07	30,610	14	182	3.33	1.8	478.53	2	23.5	88
2,349.48	93,453	49	159	3.99	2.5	2,262.59	9	78.5	235
6,490.13	295,070	71	346	7.62	2.2	4,517.23	14	213.1	838
7,166.85	255,773	89	239	6.71	2.8	8,733.31	17	331.3	476
6,605.00	241,545	112	180	4.91	2.7	5,097.65	14	251.2	638
1,247.15	70,930	35	169	2.97	1.8	98.80	1	3.0	354
1,888.86	86,485	23	313	6.84	2.2	42.74	1	3.0	108
2,065.17	74,939	40	156	4.30	2.7	138.29	1	5.5	203
3,082.27	177,296	42	352	6.12	1.8	2,000.13	10	143.0	369
4,485.35	329,784	86	320	4.35	1.4	5,881.20	15	385.3	573
5,976.30	311,068	85	305	5.86	1.9	6,103.46	9	238.8	427
1,432.34	68,190	30	189	3.98	2.1	1,049.00	3	28.0	307
2,721.43	157,475	51	257	4.45	1.7	1,415.21	9	73.3	214
4,078.64	194,182	80	202	4.25	2.1	6,202.13	12	307.6	471
5,015.70	340,982	68	418	6.15	1.5	14,455.98	10	615.5	353
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1,030.25	41,545	12	288	7.15	2.5	1,113.23	2	48.5	93
4,068.92	234,852	60	326	5.65	1.7	16,516.54	11	936.2	420
1,318.82	50,530	29	145	3.79	2.6	613.75	2	39.2	161
1,999.49	120,480	48	209	3.47	1.7	3,279.93	3	117.8	243
4,100.66	154,464	44	293	7.77	2.7				231

APPENDIX I

ACTS

CHAPTER 69

An Act to amend The Power Commission Act.

Assented to March 31st, 1948.

Session Prorogued April 16th, 1948.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. Clause *f* of section 9 of *The Power Commission Act*, as re-enacted by section 4 of *The Power Commission Amendment Act, 1946*, is amended by inserting after the figures "11" in the first line the figures and letter "11a," so that the said clause shall now read as follows:

Rev. Stat.,
c. 62, s. 9,
cl. *f* (1946,
c. 73, s. 4),
amended.

(f) to provide reserves authorized by sections 11, 11a, 12 and 14; and

2. Section 11 of *The Power Commission Act*, as re-enacted by section 5 of *The Power Commission Amendment Act, 1946*, is amended by adding thereto the following subsection:

Rev. Stat.,
c. 62, s. 11
(1946,
c. 73, s. 5),
amended.

(3) The Commission may from time to time transfer from its reserve account established under clause *b* of subsection 1 such amounts as it deems advisable, and place the same to the credit of the frequency standardization reserve account.

Transfer to
frequency
standardiza-
tion reserve
account.

3. *The Power Commission Act* is amended by adding thereto the following sections:

Rev. Stat.,
c. 62,
amended.

11a.—(1) An account to be known as the frequency standardization reserve account may be opened and maintained on the books of the Commission and the Commission may place to the credit of such account,—

Frequency
standardiza-
tion reserve
account.

- (a) such amounts as the Commission transfers under subsection 3 of section 11, from the reserve account established under clause *b* of subsection 1 of section 11;
- (b) such amounts as the Commission collects pursuant to clause *e* of section 21*b*;
- (c) such amounts as may be made available for the credit of this account pursuant to subsection 2 of section 56;
- (d) such additional amounts as may in the opinion of the Commission be necessary for the purposes of this section;
- (e) interest at such rates as the Commission shall deem equitable and just upon balances remaining from time to time to the credit of the account.

Use of
moneys.

- (2) Any or all of the amounts at the credit of the frequency standardization reserve account may be used in the discretion of the Commission for meeting any expenditure or costs made or incurred under section 21*b*, except expenditure or costs made or incurred in respect to works held by it under section 71.

Change of
frequency.

- 21*a*. Subject to the approval of the Lieutenant-Governor in Council and notwithstanding any agreement between the Commission and any person, the Commission may change the periodicity in alternations of current at which it supplies electrical power or energy to any person.

Powers of
Commission
on frequency
change-over.

- 21*b*. Subject to the approval of the Lieutenant-Governor in Council the Commission may,—

- (a) for the purposes of standardizing and making uniform the periodicity in alternations of current at which it supplies electrical power or energy, alter, reconstruct, rebuild, re-assemble, construct, extend, replace or do whatever else may be necessary in respect of its works and works held by it under section 71;
- (b) for the purpose of standardizing and making uniform the periodicity in alternations of current at which electrical power or energy generated or procured by it is utilized, and with the consent of the owner, alter, reconstruct, rebuild, re-assemble, construct, extend, replace or do whatever else may be necessary in respect of the electrical equipment, apparatus, appliances, devices or works of any person other than a municipal corporation or municipal commission which

are utilized for taking from the Commission and using electrical power or energy;

- (c) bear the expense of anything done pursuant to clause *a*;
- (d) bear the expense of anything done pursuant to clause *b* to the electrical equipment, apparatus, appliances, devices or works of domestic, rural domestic and commercial lighting consumers, and also such portion of anything done pursuant to clause *b* to the electrical equipment, apparatus, appliances, devices or works of any person other than domestic, rural domestic or commercial lighting consumers as the Commission may deem advisable;
- (e) except as provided in clause *d*, charge to and collect from any person to whose electrical equipment, apparatus, appliances, devices or works anything has been done pursuant to clause *b* the cost or any part thereof according to a tariff approved by the Lieutenant-Governor in Council.

4. Section 56 of *The Power Commission Act* is repealed and the following substituted therefor:

Rev. Stat.,
c. 62, s. 56,
re-enacted.

56.—(1) In addition to the powers conferred upon it by this Act or any other Act to contract with municipal corporations for the supply by it of electrical power and energy and to contract with persons pursuant to sections 47, 72 and 76, the Commission, subject to the approval of the Lieutenant-Governor in Council, may contract with any other person for the supply of electrical power or energy to such person upon such terms and conditions as the Commission may deem proper.

Supply of
power.

(2) The revenue, or any part thereof, derived by the Commission from supplying power or energy under subsection 1 for use outside of Ontario and which in the opinion of the Commission is so derived because of anything done pursuant to section 21*b* may be placed to the credit of the frequency standardization reserve account.

Application
of revenue.

(3) Any net profit made by the Commission in supplying power or energy under subsection 1 shall be applied in reduction of the cost of electrical power or energy to municipal corporations having contracts with the Commission.

Application
of net profit.

Determina-
tion of net
profit.

- (4) Net profit referred to in subsection 3 shall be determined by deducting from the revenue received from supplying power or energy under subsection 1 all moneys placed to the credit of the frequency standardization reserve account pursuant to subsection 2 and an amount determined by the Commission for costs and charges as enumerated in clauses *a*, *b* and *c* of section 61 and for the purposes of section 11 and clause *d* of subsection 1 of section 11*a*.

Use of
right-of-way
of railway,
power and
transmission
companies.

- (5) The Commission may, with the approval of the Lieutenant-Governor in Council, contract with a railway company or power or transmission company for the use of its right-of-way and property for the purposes of the Commission.

Rev. Stat.,
c. 62, s. 58,
re-enacted.

5. Section 58 of *The Power Commission Act*, as amended by section 7 of *The Power Commission Amendment Act, 1943* and section 1 of *The Power Commission Amendment Act, 1947* (No. 2), is repealed and the following substituted therefor:

Amendment
of agree-
ments.

- 58.—(1) If any agreement heretofore or hereafter entered into by the Commission for the supplying of electrical power or energy by the Commission to a municipal corporation or for any other work or service to be done or supplied by the Commission to a municipal corporation contains any term or condition conflicting with or contrary to this Act, the agreement shall be deemed to be amended in such manner and to such extent as to give effect to this Act.

Effect of
approval.

- (2) Subject to subsection 1, where the Commission has heretofore entered, or shall hereafter enter, into an agreement for the supplying of electrical power or energy by or to the Commission or for any other work or service to be done by or supplied to the Commission and such agreement has been or shall hereafter be approved by the Lieutenant-Governor in Council, it shall thereupon be valid and binding upon the parties thereto.

Rev. Stat.,
c. 62, s. 58*a*
(1947,
c. 79, s. 2),
re-enacted.

6. Subsection 2 of section 58*a* of *The Power Commission Act*, as enacted by section 2 of *The Power Commission Amendment Act, 1947* (No. 2), is repealed and the following substituted therefor:

Modifica-
tion of
restrictions.

- (2) The Commission may at any time modify, restrict, suspend or re-impose any order, regulation, restriction, prohibition or control, heretofore or hereafter given, made or exercised pursuant to subsection 1.

Cessation
of power
delivery

- (3) The Commission may interrupt or decrease delivery of electrical power or energy in such manner and to such extent as it sees fit to any of its customers who

fails to comply with any direction, order, regulation, restriction, prohibition or control given, made or exercised by it pursuant to subsection 1 by such means as it may deem proper and may enter upon any land of any such customer and do whatever is necessary for that purpose.

- (4) Any municipal corporation or municipal commission receiving electrical power or energy from the Commission for distribution may interrupt or decrease delivery of electrical power or energy in such manner and to such extent as it sees fit to any of its customers who fails to comply with any direction, order, regulation, restriction, prohibition or control given, made or exercised by the Commission, pursuant to subsection 1, by such means as it may deem proper, and may enter upon any land of any such customer and do whatever is necessary for that purpose. Entry by municipal corporation.
- (5) Nothing done under this section or under any direction, order, regulation, restriction, prohibition or control made or exercised by the Commission under this section or done to enforce or give effect thereto by the Commission, its servants or agents, or by any municipal corporation or municipal commission or its servants or agents, shall be deemed a breach of contract by the Commission or any municipal corporation or municipal commission or entitle any person to rescind any contract or release any guarantor from the performance of his obligation, or render the Commission, its servants or agents, or any municipal corporation or municipal commission, its or their servants or agents liable in any action-at-law or other legal proceedings for damages or otherwise. No breach of contract.
- (6) Any person refusing or neglecting to comply with any direction, order, regulation, restriction, prohibition or control made or exercised by the Commission under this section shall be guilty of an offence and in addition to any other liability incur a penalty of not less than \$100 and not more than \$500 and a further penalty of not less than \$100 and not more than \$500 for each and every separate day upon which such refusal or neglect is repeated or continued. Penalties.
- (7) The penalties imposed by or under the authority of this section shall be recoverable under *The Summary Convictions Act*. Recovery of penalties. Rev. Stat., c. 136.

7. Clause *d* of section 61 of *The Power Commission Act*, Rev. Stat., c. 62, s. 61, as re-enacted by section 11 of *The Power Commission Amendment Act, 1946*, is amended by adding at the end thereof the words amended.

“and clause *d* of section 11*a*”, so that the said clause shall now read as follows:

- (*d*) an amount to be determined by the Commission for the purposes of sections 11 and 12 and clause *d* of section 11*a*.

Rev. Stat.,
c. 62, s. 71
(1939,
c. 35, s. 3),
amended.

8. Section 71 of *The Power Commission Act*, as re-enacted by section 3 of *The Power Commission Amendment Act, 1939* and amended by section 8 of *The Power Commission Amendment Act, 1943*, is further amended by adding thereto the following subsection:

Use of
moneys for
standardiza-
tion of
frequency.

- (6) The Commission may in its discretion use any of the revenue which may be derived or may have been derived from the distribution of electrical power or energy by the Commission on behalf of the corporation of any township forming a rural power district or any part thereof for altering, reconstructing, rebuilding, re-assembling, constructing, extending, replacing or whatever else may be necessary in respect of works held by it under subsection 3, for the purpose of standardizing and making uniform to such extent and in such manner as it may deem necessary the periodicity in alternations of current at which it supplies electrical power to customers of the corporation or at premises pursuant to subsection 3.

Rev. Stat.,
c. 62, s. 95*a*,
cl. *d* (1946,
c. 73, s. 14),
amended.

9. Clause *d* of section 95*a* of *The Power Commission Act*, as enacted by section 14 of *The Power Commission Amendment Act, 1946*, is amended by adding at the end thereof the words “in the alteration, reconstruction, rebuilding, re-assembling, construction, replacing or whatever else may be necessary in respect of such works for the purpose of receiving from the Commission and distributing electrical power or energy at a changed periodicity in alternations of current; or”, so that the said clause shall now read as follows:

Extension
and altera-
tion of
works.

- (*d*) in the extension of works for the production, development, distribution or sale of electrical power or energy or in the alteration, reconstruction, rebuilding, re-assembling, construction, replacing or whatever else may be necessary in respect of such works for the purpose of receiving from the Commission and distributing electrical power or energy at a changed periodicity in alternations of current; or

Rev. Stat.,
c. 62, s. 96,
subs. 1, cls.
a, *b* (1946,
c. 73, s. 15),
re-enacted.

10. Clauses *a* and *b* of subsection 1 of section 96 of *The Power Commission Act*, as re-enacted by section 15 of *The Power Commission Amendment Act, 1946*, are repealed and the following substituted therefor:

Alteration
of works.

- (*a*) in altering, reconstructing, rebuilding, re-assembling, constructing, replacing or doing whatever else may

be necessary in respect of works for the production, development, distribution or sale of electrical power or energy for the purpose of receiving from the Commission and distributing electrical power or energy at a changed periodicity in alternations of current;

- (b) in repaying to persons to whom electrical power or energy is being supplied by such municipal corporation or municipal commission money paid by them for electrical power or energy so supplied, such repayment being made either directly or by a credit on or reduction in bills for electrical power or energy; or In repayment to customers.
- (c) to the extent to which such surplus is derived from the supply of electrical power or energy for the lighting of the streets of the municipality or for the operation of any street railway or electric railway or any public utility of the corporation other than an electric utility, by payment over of such surplus or of such portion thereof as the Commission may deem proper, to the treasurer of the municipality to be applied to the general purposes of the corporation. To general purposes of municipal corporations.

11. This Act may be cited as *The Power Commission Amendment Act, 1948*. Short title.

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Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 277; B, 333	
Statements..... C, 358; D, 378	
Whitby—Load in Horspower.....	30
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 277; B, 333	
Statements..... C, 358; D, 368	
Warton—Load in Horsepower.....	30
Municipal Work.....	62
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 277; B, 333	
Statements..... C, 358; D, 368	
Williamsburg—Load in Horsepower.....	30
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 277; B, 333	
Statements..... C, 358; D, 378	
Wilson Lumber Sales Limited—Agreement Approved.....	12
Winchester—Load in Horsepower.....	30
Municipal Work.....	65
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 277; B, 333	
Statements..... C, 358; D, 378	
Windermere—Load in Horsepower.....	30
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 277; B, 333	
Statements..... C, 358; D, 378	
Windsor—Load in Horsepower.....	30
Municipal Work.....	53
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 277; B, 333	
Statements..... C, 358; D, 364	

Windsor Steam Plant Started.....	111
Wingham—Load in Horsepower.....	30
Municipal Work.....	62
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 278; B, 334	
Statements..... C, 358; D, 368	
Woodbridge—Load in Horsepower.....	30
Municipal Work.....	60
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 278; B, 334	
Statements..... C, 358; D, 378	
Woodstock—Load in Horsepower.....	30
Municipal Work.....	53
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 278; B, 334	
Statements..... C, 358; D, 364	
Woodville—Load in Horsepower.....	30
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 278; B, 334	
Statements..... C, 358; D, 378	
Wyoming—Load in Horsepower.....	30
Cost of Power.....	283
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 279; B, 335	
Statements..... C, 358; D, 378	

Y

York, East, Township (See East York Township)	
York, North, Township (See North York Township)	
York Township—Load in Horsepower....	30
Municipal Work.....	60
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 279; B, 335	
Statements..... C, 358; D, 364	

Z

Zurich—Load in Horsepower.....	30
Cost of Power.....	182
Credit or Charge Account.....	198
Sinking Fund.....	203
Municipal Accounts..... A, 279; B, 335	
Statements..... C, 358; D, 378	



TUNNEL—Looking upstream through incomplete portion of dam

FORTY-SECOND ANNUAL REPORT
OF
THE HYDRO-ELECTRIC
POWER COMMISSION
OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1949



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1950

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

1948

ROBERT H. SAUNDERS, C.B.E., K.C.....*Chairman*
HON. GEORGE H. CHALLIES, PHM.B., M.L.A.....*1st Vice-Chairman*
W. ROSS STRIKE, K.C.....*2nd Vice-Chairman*

R. L. HEARN

*General Manager
and Chief Engineer*

E. B. EASSON
Secretary



HEAD OFFICE
620 UNIVERSITY AVENUE - TORONTO, ONTARIO
CANADA

LETTER OF TRANSMITTAL

TORONTO, ONTARIO, MARCH 31, 1950

THE HONOURABLE RAY LAWSON, O.B.E., LL.D.,

Lieutenant-Governor of Ontario.

MAY IT PLEASE YOUR HONOUR:

It is my privilege to present the Forty-second Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31, 1949. In my review certain statistical information relates to the fiscal year, but as the context will show general statements relating to 1949 refer to the calendar year.

A review of recent history of Hydro in Ontario is a reminder of the difficult days of 1948 and of the effect of restrictions in the use of power. These brought clearly before us the great importance of electricity in the industrial and agricultural life of the Province. It is the duty of the Commission and those associated with Hydro to ensure through leadership and foresight that all future power requirements of the Province will be met.

The Commission entered the calendar year 1949 with full realization of its responsibilities, not discounting the vital necessity of securing new power to provide for the fall and winter months. The expediting of construction schedules became the first consideration of the Commission in a determined effort to advance the completion dates of the new plants under construction. The months which will be saved between the originally estimated dates and the actual time when these new plants will be brought into service are vivid evidence of the tremendous effort put forth by the Commission's general manager, Mr. Richard L. Hearn, and his associates in management and engineering.

It is with pride and gratitude that we regard the year 1949 as the year of greatest achievement in the forty-two years of Hydro's history.

In less than twelve months, emergency steam and diesel electric units, totalling 63,000 kilowatts, were brought into service, of which 43,000 kilowatts

were available within ten months; arrangements were completed for an additional 82,000 kilowatts from—and due to the co-operation of—The Niagara Mohawk Corporation, and a further 17,000 kilowatts from many customer-owned diesel and steam-electric standby plants. These steps gave protection to the consumer: for example, during the week ending December 25, 1949, two of our Quebec suppliers, due entirely to insufficient water, were forced to cut deliveries to the Commission by a total of 14,248,000 kilowatt-hours. Notwithstanding this cut in supply, your Commission temporarily lifted the restrictions on store-window lighting and supplied southern Ontario customers with 215,203,697 kilowatt-hours of primary power during the week as compared with 196,621,832 kilowatt-hours supplied during the corresponding week of 1948 and 182,527,079 kilowatt-hours during the corresponding week of 1947.

I have referred to one great accomplishment on the part of our engineers. What other activities mark 1949 as a year of superlatives? The year 1949 saw an all-time peak in construction activity, exceeding that of 1948 both in manpower and expenditures. During December there were over 442 separate jobs under construction ranging from small switching structures, high tension lines, large frequency-changer and transformer stations to the giant Des Joachims generating station. The engineering branch personnel numbered 14,646, of whom 11,969 were on the temporary staff. The capital construction budget on all systems totalled \$142,000,000 for the fiscal year of which \$141,749,372, or 99.8 per cent, was spent as follows:

On power developments.....	\$72,530,000
On transformer stations.....	19,327,000
On transmission lines.....	22,890,000
On rural operating areas.....	21,580,000
On administration and service buildings and other projects....	5,422,000

The year 1949 saw an all-time peak in the extension of the benefits of electrical power to rural Ontario. After deducting the number transferred to municipal systems, a net addition of 35,206 new rural consumers was added and 4,738 miles of new rural primary lines were constructed. On October 31, 1949, the end of the Commission's fiscal year, Ontario Hydro had a total of 255,295 rural consumers on 32,059 miles of line compared with 194,053 consumers on 23,765 miles of line on October 31, 1947; 156,560 consumers on 21,569 miles of line on October 31, 1945; and 122,358 consumers on 19,251 miles of line on October 31, 1940.

The year 1949 saw the beginning of one of the greatest and most important projects in Ontario Hydro's history—the standardization of frequency in the Southern Ontario system. This project will bring substantial benefits to all consumers of the Southern Ontario system, including reduced cost of equipment, availability of equipment, facilities for the interchange of power with other generating sources, smaller and less expensive motors, and the removal of flicker in lighting. An important phase of this program is timing—your Commission must be able to use the new power when available. The size of this program can be gauged by the following: it will take from ten to twelve years to complete; it is estimated it will cost your Ontario Commission some \$170,000,000, the municipalities an additional \$20,600,000.

Conversion must be made of 1,800,000 motors, 550,000 washing machines, 300,000 refrigerators, 400,000 electric clocks, 100,000 furnace blowers, 167,000 industrial motors, 175,000 commercial motors, or about 900 motors to be rewound or replaced each day. At December 1949 the Commission's Frequency Standardization staff numbered 535 and our contractor had 1,341 employees engaged on this work.

The year 1949 saw the peak in purchasing by Hydro, necessitated by its tremendous program. During the year the Commission purchased equipment and materials to the total of \$100,000,000. Every section of Ontario and Canada received benefit through the Commission's policy of spreading the benefits of purchases as widely as possible.

The year 1949 also saw the commencement of inspection of our transmission lines by helicopter. Our large program calls for hundreds of additional miles of high voltage transmission lines; in fact our present 1,425 circuit miles of 230,000-volt lines are being increased to 2,940 miles. Also our present 4,000 circuit miles of 115,000-volt transmission lines are being increased to 4,600 miles. These increases will require additional inspection. After much study the Commission decided upon the helicopter as it had proved its value. Patrol by this method, plus one ground patrol per year, costs \$3.00 per circuit mile, as compared with the less efficient ground patrol which costs \$4.00 per mile.

The year 1949 saw the greatest number of cost municipalities, that is those which are supplied with power under cost contracts with the Commission and operate their own Hydro utilities, in number 309. There was during the year abundant evidence showing the important part played by the local commissions in the success of Hydro. It is recognized that each year a great many private citizens give generously of their time and talent to pilot the business affairs of Hydro in their municipalities. These citizens are preserving the benefits that can and do accrue from a generous measure of local autonomy combined with other advantages derived from the co-operating endeavours carried out on their behalf by the Provincial Commission. The results secured, representing the maximum good to all, are of untold benefit to the people of the Province.

The year 1949 also saw a greater interest than ever before by the people generally in the activities of the Commission. Thousands upon thousands of our people took advantage of our invitation to visit the various projects, in order that they might see at first hand what was actually taking place. For example, during the summer season of 1949, Des Joachims recorded approximately 10,000 visitors, while public interest was sustained in the older plants of the Commission, as was demonstrated by over 41,000 people visiting the Queenston generating station during 1949. As a further example of interest in our activities, there is the experience of the staff in our Research division. Some months ago our laboratory held Open House for one week and a tabulation indicated that there were some 1,334 visitors representing over 200 manufacturers, 4 universities, 4 colleges, the Ontario Agricultural College and 38 different municipalities. In this connection the Commission is greatly indebted to the newspapers of the Province and to the radio for their generous support during the year.

Another matter of prime importance occurred during the latter part of 1949—the rate structure was substantially increased. The price at which the Commission has sold power in recent years has been characterized by a condition of relative stability or one of gradual reduction. This condition and trend is being changed by economic forces beyond the control of the Commission. The annual costs recorded an increase of 11.4 per cent during 1949, bringing about a general increase in rates. It must always be remembered that the Commission supplies power to the municipalities at cost. This cost must of necessity include all operating, maintenance, and interest charges, and reserves for depreciation, contingencies, and for a sinking fund for capital repayment. If costs increase, and they did, then additional revenues must be obtained to maintain the undertaking on a sound financial basis, to provide security and continuity of service, and to meet the growth in demands for power that are being placed on the facilities of the Commission.

Your Ontario Hydro approaches the future with confidence. The post-war construction and development program, costing some \$593,000,000 and including nine hydro-electric projects, two steam-electric stations and one steam-electric source of purchased power, is well ahead of schedule. Since the war, five of these projects have been placed in service, increasing our available capacity by over 247,000 horsepower. The balance of the program, totalling some 1,400,000 horsepower, will be in service by 1952. In the near future, we look forward to the opening of the Des Joachims development. The original schedule gave January of 1951 for the first units to be in service at that development. Today we are able to say that the first two units will be in service by July 1, 1950 and the additional six units of 60,000 horsepower each, will be placed in service progressively between July 1950 and January 1951, making a total of 480,000 horsepower. The Chenaux development schedule has been altered and the first two units, totalling 40,000 horsepower, will be placed in service in December 1950 in place of January 1951. The remaining six units of 20,000 horsepower each will be in service by June 1951, a total from Chenaux of 160,000 horsepower. These two developments will, it is believed, amply take care of the demand in the Southern Ontario system pending the completion of the construction program.

Another important project which was started in 1949 will mean much to the northeastern section of the Province. Ontario today is divided into four sections as far as power is concerned—Southern, Northeastern, Patricia and Thunder Bay; there is no physical connection of power supply networks between any two sections. It was decided in 1949, in order to give additional protection to northeastern Ontario, to construct a tie-line from Des Joachims to North Bay. This tie-line, which will be completed in October 1950, will make available to northern Ontario the full protection of the new generating stations being constructed in the southern section. This tie-line in addition to the Tunnel development, with its 56,500 horsepower coming into service in June of this year, will certainly give ample protection to the people of northeastern Ontario. The Thunder Bay system and Patricia district will, we believe, be connected early in 1951, and this will be of great mutual assistance to these two districts. It is also to be noted that the Thunder Bay system will be given added protection with the opening of the Pine Portage development (80,000 horsepower) in June 1950.

Your Commission is of the opinion that in the not too distant future a tie-line will be constructed joining Thunder Bay and the Northeastern region. Thus the whole of Ontario will be joined in one huge network for the mutual protection of all districts. At present, due to the co-operation of the Honourable Leslie M. Frost, Prime Minister of Ontario, and the Honourable D. L. Campbell, Prime Minister of Manitoba, a committee is studying the question of the most efficient use of the waters of the Winnipeg and the English rivers for the benefit of both provinces. In addition, the Commission has been studying for some years an interconnection between Ontario and the State of Michigan. These steps, together with the fact that the Ontario, Quebec and New York State power systems are already joined, will provide a vast network of power lines—Quebec, Ontario, Manitoba and the States of Michigan and New York—for the mutual protection of all.

Looking into the future, the Commission feels that the present development program will make provision for the power needs of the Province until 1953 or early 1954. Having faith in Ontario's future, your Ontario Hydro believes that the demand will continue to grow, and this belief has spurred us on to look for new power projects. The proposed projects on the Niagara and St. Lawrence rivers, together constitute the answer for many years to come. Your Commission is greatly indebted to the Right Honourable Louis S. St. Laurent, Prime Minister of Canada, and to the Honourable Leslie M. Frost, Prime Minister of Ontario for their generous support in connection with the Niagara River diversions, and it is with confidence that we look for early ratification of the Treaty relating to this river.

It is the intention of your Commission to press for the development of power on the St. Lawrence river in the belief that the proposed developments on the Niagara and the St. Lawrence rivers are indispensable to Ontario's future expansion in every field.

Let me say again, as I said in my Letter of Transmittal of March 31, 1949, that I have received the utmost co-operation from the 1st Vice-Chairman of the Commission, the Hon. George H. Challies and from the 2nd Vice-Chairman, Mr. W. Ross Strike, to whom I express sincere appreciation. We as a Commission are indebted to the members and staffs of the municipal commissions throughout the Province for their generous co-operation which assisted materially in accomplishing the work referred to in the Report

Respectfully submitted,

ROBERT H. SAUNDERS,
Chairman

LETTER OF SUBMITTAL BY THE GENERAL MANAGER AND CHIEF ENGINEER

TORONTO, ONTARIO, MARCH 30, 1950

ROBERT H. SAUNDERS, ESQ., C.B.E., K.C., *Chairman*

and COMMISSIONERS

SIRS:

The undersigned respectfully submits the Forty-second Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year which ended October 31, 1949.

The Report relates to the Commission's activities on behalf of the co-operative systems, both in the municipal and rural supply fields and to its trusteeship of the Northern Ontario Properties for the Province. There are also presented for the calendar year 1949 financial statements and statistical data of the municipal electrical utilities operating in conjunction with the co-operative systems.

Attached to this Letter of Submittal are certain summary tabulations and statements of the supply of and demand for power, the progress of Hydro's construction program, and capital investment, reserves and revenue, relating both to the Commission and to the associated municipal electrical utilities.

The year 1949 was a most difficult one due to the large increase in capital construction and the power shortage arising from abnormal load growth and subnormal water supplies in the Quebec and northern areas.

The staff measured up to these difficulties admirably, and it is my wish to acknowledge the splendid job the whole staff did and the efficient and loyal service they rendered during the past year.

Respectfully submitted,

R. L. HEARN,

*General Manager
and Chief Engineer*

SUMMARY TABULATIONS AND STATEMENTS

Total Power Generated and Purchased — All Systems

For Fiscal Years ended October 31, 1948 and 1949

	1948 Kilowatts	1949 Kilowatts	Increase or Decrease Kilowatts
Maximum normal plant capacity.....	1,436,870	1,495,200	+58,330
Power purchased—contract amount.....	712,206	734,706	+22,500
Total available capacity-generated and purchased	2,149,076	2,229,906	+80,830
	Kilowatt-hours	Kilowatt-hours	Kilowatt-hours
Total energy generated.....	8,879,893,929	9,450,076,659	+570,182,730
Total energy purchased.....	4,674,194,601	4,582,873,331	—*91,321,270
Total energy generated and purchased.....	13,554,088,530	14,032,949,990	+478,861,460

*Reduction in 1949 due, in part, to water shortage.

Supply and Demand of Power by Systems

TOTAL POWER ACTUALLY SUPPLIED—(Primary and Secondary)

20-MINUTE PEAK KILOWATT —SYSTEM COINCIDENT PEAKS

System	1948	1949
	October	
Southern Ontario System.....	1,542,975	1,743,973
Thunder Bay System.....	132,210	171,380
Northern Ontario Properties.....	212,132	234,878
	December	
Southern Ontario System.....	1,687,992	1,806,850
Thunder Bay System.....	154,545	174,878
Northern Ontario Properties.....	214,634	221,712

TOTAL POWER DEMAND

ACTUAL PRIMARY LOAD PLUS ESTIMATED INDUSTRIAL LOAD CUTS—KILOWATTS

System	1948	1949
	October	
Southern Ontario System.....	1,700,640	1,903,573
Thunder Bay System.....	126,110	165,780
Northern Ontario Properties.....	208,952	231,513
	December	
Southern Ontario System.....	1,827,642	1,987,035
Thunder Bay System.....	132,945	166,978
Northern Ontario Properties.....	207,629	218,217

Summary of Hydro's Post-War Development Program — 1945 to 1952

CONSTRUCTION OF GENERATING PLANTS

As at October 31, 1949

<i>System and development</i>	<i>In service</i>	<i>Kilowatts</i>	<i>Approximate Horsepower</i>
<i>In Operation</i>			
SOUTHERN ONTARIO SYSTEM			
DeCew Falls (Extension)—Niagara district	September 1947	57,000	76,400
Stewartville—Madawaska river	September 1948	63,000	84,500
Additional power purchase contract—Polymer Corporation	November 1948	22,500	30,200
THUNDER BAY SYSTEM			
Aguasabon—Aguasabon river	October 1948	40,000	53,600
NORTHERN ONTARIO PROPERTIES			
Ear Falls (Extension)—English river	June 1948	6,000	8,000
Total in service		188,500	252,700
<i>Estimated in service</i>			
<i>Authorized and Under Construction</i>			
SOUTHERN ONTARIO SYSTEM			
Des Joachims—Ottawa river	6 units in 1950, 2 units in 1951	358,000	480,000
Chenau—Ottawa river	2 units in 1950, 6 units in 1951	120,000	160,000
La Cave—Ottawa river	1952	144,000*	192,000
J. Clark Keith (Steam)—Windsor	Fall 1951	120,000	160,000
Richard L. Hearn (Steam)—Toronto	Fall 1951	200,000	268,000
Emergency steam and diesel-electric units	November 1949 to April 1950	63,000	84,000
THUNDER BAY SYSTEM			
Pine Portage—Nipigon river	July 1950	60,000†	80,000
NORTHERN ONTARIO PROPERTIES			
Tunnel—Mississagi river	July 1950	42,000	56,000
Total under construction		1,107,000	1,480,000
Total in service and under construction		1,295,500	1,732,700

*Ultimate capacity planned... 192,000 kilowatts, 257,000 horsepower.

†Ultimate capacity planned... 120,000 kilowatts, 160,000 horsepower.

FINANCIAL SUMMARY—TO OCTOBER 31, 1949

For power generation:			
Expenditures on projects in service		\$ 54,393,678	
Expenditures on projects under construction		113,938,752	
Unexpended portion of approvals		142,643,120	
			\$310,975,550
For transmission lines:			
Expenditures on lines in service		30,188,271	
Expenditures on lines under construction		22,602,209	
Unexpended portion of approvals		42,736,640	
			95,527,120
For transformation, frequency-changer station facilities and service buildings:			
Expenditures on facilities in service		36,898,041	
Expenditures on facilities under construction		16,153,405	
Unexpended portion of approvals		41,557,738	
			94,609,184
For rural construction:			
Expenditures on lines and facilities in service		40,863,178	
Expenditures on lines and facilities under construction		7,245,164	
Unexpended portion of approvals		8,677,887	
			56,786,229
Other approved expenditures			35,476,141
			\$593,374,224

Capital Investment and Reserves

Capital Investment

The total capital investment of The Hydro-Electric Power Commission of Ontario in power undertakings, exclusive of government grants in respect of construction of rural power districts' lines (\$44,085,329.40) is \$695,523,039.35, and the investment of the municipalities in distributing systems and other assets is \$174,432,338.05, making in power undertakings a total investment of \$869,955,377.40.

The following statement shows the capital invested in the respective systems, properties and municipal undertakings etc:

Southern Ontario system.....	\$ 487,914,092.33
Thunder Bay system.....	61,279,128.23
Office and service buildings.....	10,885,959.91
Construction plant and inventories.....	45,426,129.93
Total capital investments in co-operative systems.....	\$ 605,505,310.40
Northern Ontario Properties—Operated by H-E.P.C. on behalf of the Province Of Ontario.....	88,594,476.67
Northern Ontario Properties—Construction plant and inventories.....	1,423,252.28
Total Commission capital investments.....	\$ 695,523,039.35
Municipalities' distribution systems.....	136,745,778.92
Other assets of municipal Hydro utilities.....	37,686,559.13
Total.....	\$ 869,955,377.40

Reserves of Commission and Municipal Electrical Utilities

The total reserves of the Commission and the municipal electrical utilities for depreciation, contingencies, frequency standardization, stabilization of rates, sinking fund and insurance purposes, amount to \$533,135,810.02, made up as follows:

Southern Ontario system.....	\$ 295,680,319.91
Thunder Bay system.....	20,210,753.85
Office and service buildings and equipment.....	2,315,873.67
Total reserves in respect of co-operative systems' properties.....	\$ 318,206,947.43
Northern Ontario Properties.....	32,116,243.73
Fire insurance reserve.....	306,482.43
Miscellaneous reserves.....	1,418,583.88
Employers liability insurance, and staff pension reserves.....	20,795,132.62
Total reserves of the Commission.....	\$ 372,843,390.09
Total reserves and surplus of municipal electric utilities.....	160,292,419.93
Total Commission and municipal reserves.....	\$ 533,135,810.02

Revenue of Commission

The revenue of the Commission at interim rates from the municipal utilities operating under cost contracts, from customers in rural power districts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Southern Ontario and Thunder Bay systems, aggregated \$62,007,799.73. The revenue of the Commission from customers served by the Northern Ontario Properties, which are held and operated in trust for the Province, was \$7,661,128.59, making a total (excluding \$299,346.17 of Northern Ontario Properties revenue transferred to Thunder Bay system in respect of power supplied) of \$69,369,582.15.

Summarized operating results of these co-operative systems and rural power districts and of the Northern Ontario Properties, as of October 31, 1949, follow:

Summarized Operating Results

SOUTHERN ONTARIO SYSTEM—THUNDER BAY SYSTEM INCLUDING RURAL POWER DISTRICTS

Revenue: amount received from or billed against municipalities and other customers.....	\$ 51,047,252.96
Revenue from customers in rural power districts (retail).....	10,960,546.77
Total revenue, systems and rural.....	\$ 62,007,799.73
Operation, maintenance, administration, interest and other current expenses.....	\$ 46,608,354.17
Provision for reserves—	
Renewals.....	\$ 4,011,911.70
Contingencies and obsolescence.....	1,651,263.23
Frequency standardization.....	6,393,158.21
Stabilization of rates.....	35,147.30
Sinking fund.....	4,238,363.08
	16,329,843.52
	62,938,197.69
Less: Appropriated from rural power districts suspense account..	1,729,674.26
	\$ 61,208,523.43
Net balance credited to municipalities.....	\$ 799,276.30

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
In trust for the Province of Ontario

Revenue: amount received from or billed against municipalities and other customers.....	\$ 7,661,128.59
Operation, maintenance, administration, interest and other current expenses.....	\$ 6,103,951.32
Provision for reserves—	
Renewals.....	\$ 698,435.97
Sinking fund.....	635,981.19
Contingencies.....	388,263.14
	1,722,680.30
	7,826,631.62
Loss.....	\$ 165,503.03

Comparative Financial Statements 1948-1949

Co-operative Systems of the Commission

SOUTHERN ONTARIO SYSTEM

Embracing Niagara, Georgian Bay and Eastern Ontario divisions

	1948	1949
	\$ c.	\$ c.
OPERATING EXPENSES AND FIXED CHARGES		
Power purchased.....	12,561,818.99	13,220,956.29
Operation, maintenance and administration.....	12,189,743.27	15,497,704.67
Interest.....	13,479,519.81	15,203,099.20
Provision for renewals.....	3,104,610.66	3,695,533.03
Provision for contingencies and obsolescence.....	1,002,502.11	1,333,421.29
Provision for Frequency standardization.....	7,447,030.47	6,393,158.21
Sinking fund.....	3,412,778.71	3,839,465.09
TOTAL COST OF POWER.....	53,198,004.02	59,183,337.78
Less: Appropriated from rural power districts suspense account.....		1,670,062.55
		57,513,275.23
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates.....	55,874,052.59	58,284,450.54
Net balance credited to municipalities under cost contracts....	2,676,048.57	771,175.31

THUNDER BAY SYSTEM

	1948	1949
	\$ c.	\$ c.
OPERATING EXPENSES AND FIXED CHARGES		
Power purchased.....	76,521.87	1,407.21
Operation, maintenance and administration.....	693,232.66	1,095,689.81
Interest.....	872,246.43	1,589,496.99
Provision for renewals.....	184,919.33	316,378.67
Provision for contingencies and obsolescence.....	616,377.52	317,841.94
Provision for stabilization of rates.....	110,480.23	35,147.30
Sinking fund.....	220,111.86	398,897.99
TOTAL COST OF POWER.....	2,773,889.90	3,754,859.91
Less: Appropriated from rural power districts suspense account.....		59,611.71
		3,695,248.20
REVENUE from municipalities at interim rates, from rural consumers and from private customers under contract rates.....	2,838,219.97	3,723,349.19
Net balance credited to municipalities under cost contracts....	64,330.07	28,100.99

Municipal Electric Utilities

The following summarizes the year's operation of the local electric utilities conducted by municipalities owning their own distribution systems and operating with energy supplied by or through The Hydro-Electric Power Commission. These include not only electric utilities of the cost contract municipalities of the Southern Ontario and Thunder Bay systems, but also those of certain municipalities served through the Northern Ontario Properties.

The total revenue collected by the municipal electric utilities in 1949 was \$56,903,200.73, as compared with \$53,494,708.19 for 1948, an increase of \$3,408,492.54 or 6.4 per cent.

The items of expenditure of the municipal electric utilities included \$36,225,068.75 for power supplied by the Commission, \$12,068,001.17 for operation, maintenance and administration and \$305,084.60 for interest, \$842,182.95 for sinking fund and principal payments on debentures, and \$4,266,173.78 for depreciation and other reserves. Total expenses and reserve appropriations were \$53,706,511.25, an increase of \$4,485,675.19, or 9.1 per cent over 1948. The total net surplus for the year's operations was \$3,196,689.48.

Co-operative Systems

With regard to the local Hydro utilities operating under cost contracts, the following statements summarize for each of the co-operative systems administered by the Commission, the financial status and the year's operations as detailed in Section X of the Report.

It is interesting to note that the average cost per horsepower to the municipalities of the Southern Ontario and Thunder Bay systems during 1949 was \$22.52, as compared with \$21.33 for the previous year, an increase of \$1.19 per horsepower. Notwithstanding this increase in cost per horsepower there was no change of importance in the rates to consumers in the municipalities of either system.

SOUTHERN ONTARIO SYSTEM

The total plant assets of the Southern Ontario system utilities amount to \$130,563,197.49. The total assets aggregate \$261,213,275.39. The reserves and surplus accumulated in connection with the local utilities amount to \$153,491,759.69, an increase of \$6,391,837.94 during the year 1949. The percentage of net debt to total assets is 6.8, an increase of 1.2 per cent, which has been chiefly due to the post-war rehabilitation program.

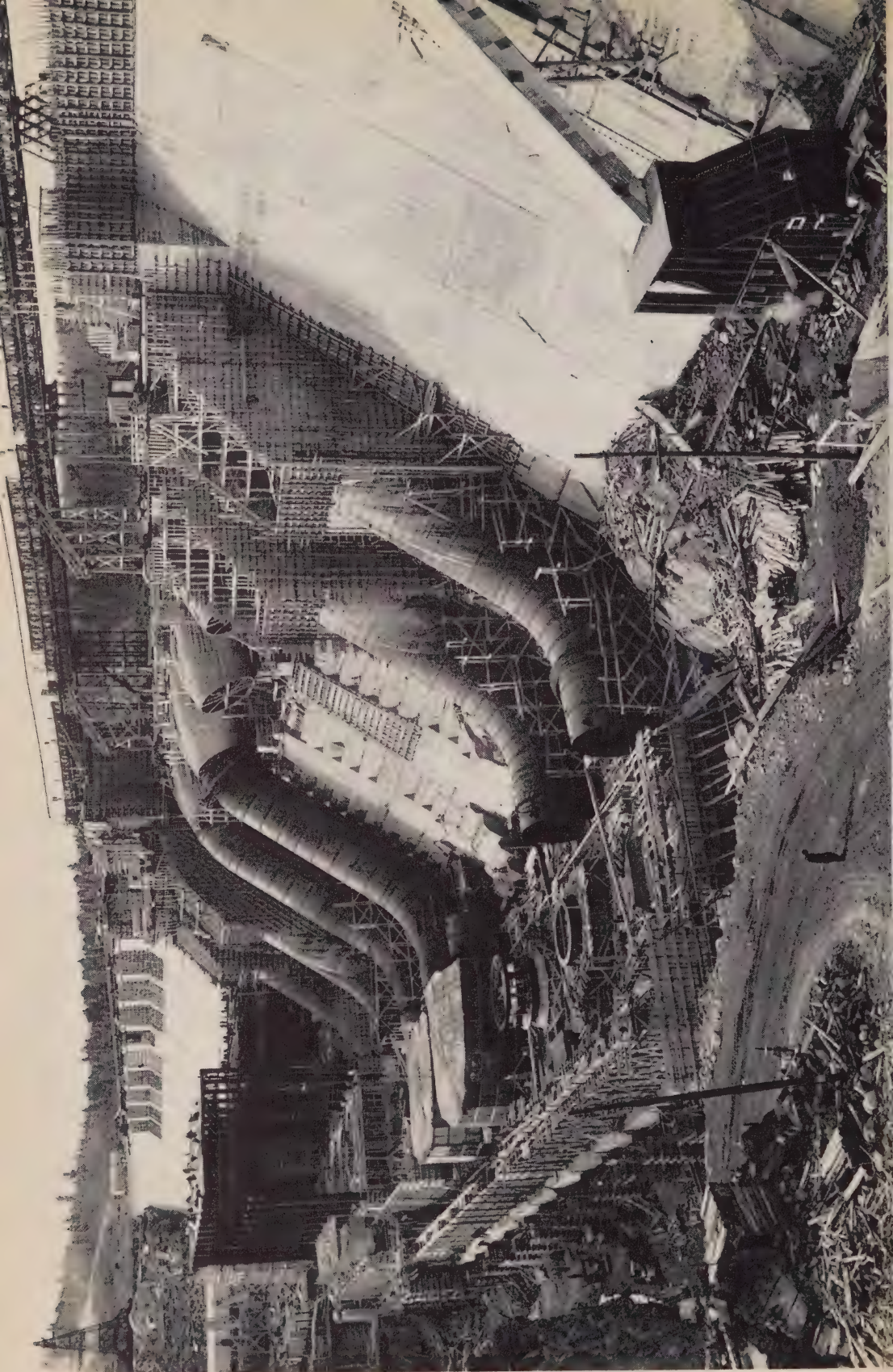
The total revenue of the municipal electric utilities served by this system was \$54,208,165.19, an increase of \$3,046,697.73 or 6 per cent, as compared with the previous year.

After meeting all expenses in respect of operation, including interest, depreciation and other reserves and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Southern Ontario system amounted to \$3,040,998.17 as compared with a net surplus of \$4,116,424.15 for the previous year.

THUNDER BAY SYSTEM

The total plant assets of the Thunder Bay system utilities amount to \$3,867,502.37. The total assets aggregate \$10,703,018.73. The reserves and surplus accumulated in connection with the local utilities amount to \$4,534,782.35, an increase of \$141,313.60 during the year 1949. The percentage of net debt to total assets is 9.2, an increase of 0.5 per cent.

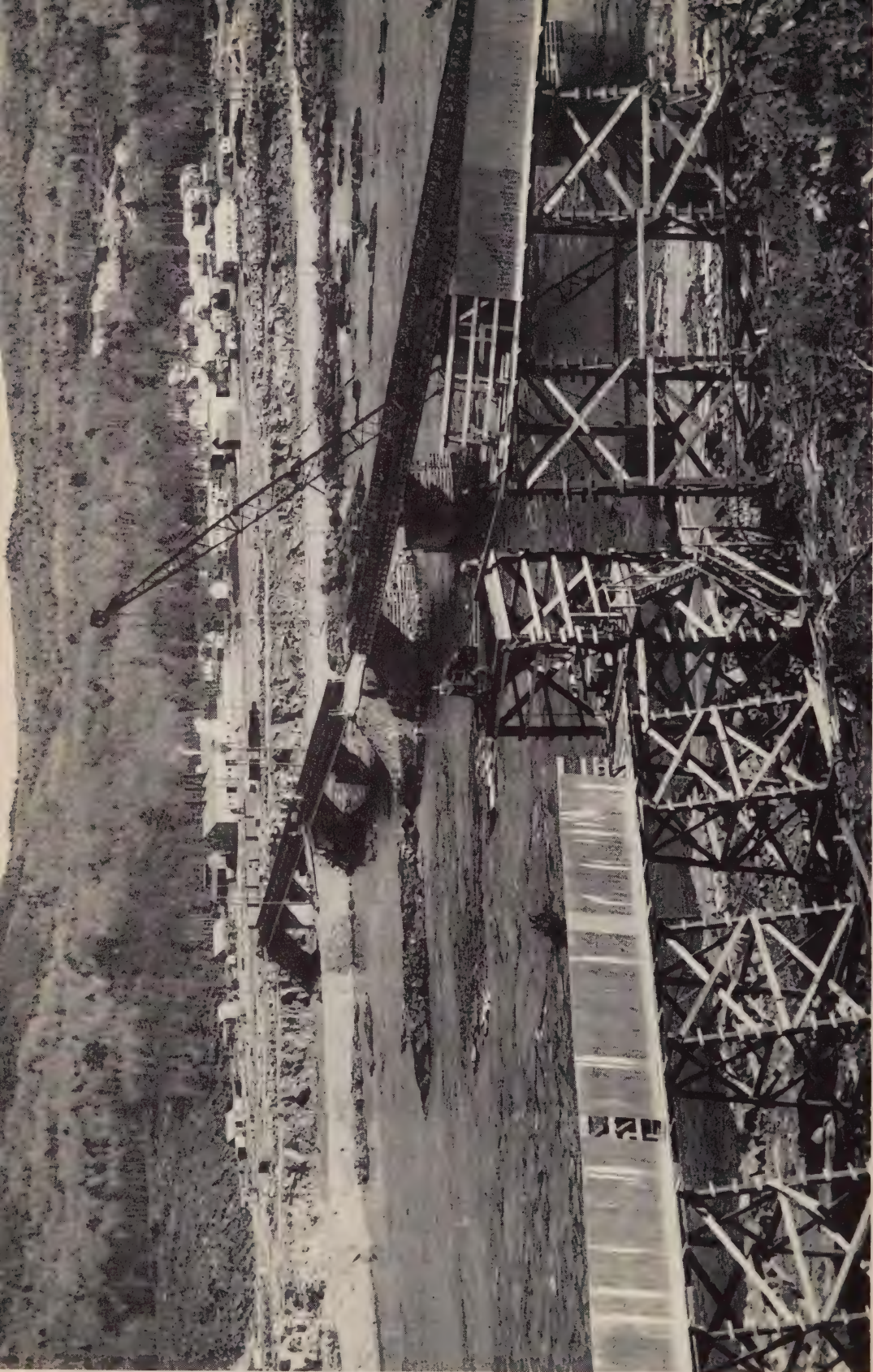
The total revenue of the municipal electric utilities served by this system was \$1,568,700.75, an increase of \$202,439.74, or 14.8 per cent, as compared with the previous year. After meeting all expenses in respect of operation, including interest, depreciation and other reserves and providing for the retirement of instalment and sinking fund debentures, the total net surplus for the year for the municipal electric utilities served by the Thunder Bay system amounted to \$96,452.11 as compared with a net surplus of \$111,305.17 for the previous year.



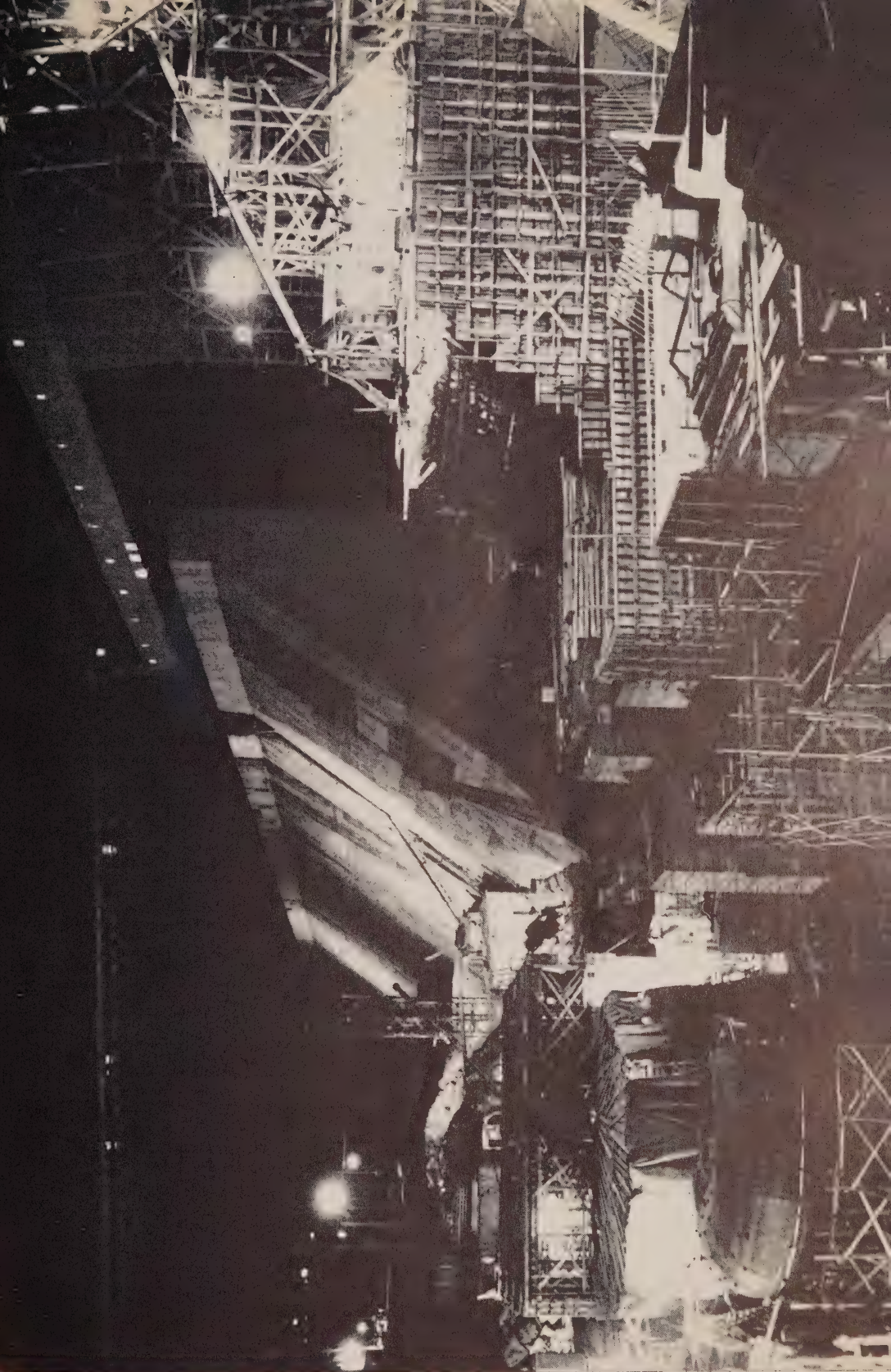
DES JOACHIMS—Development in advanced stage of construction, November 1949



CHENAUX—Progress towards end of 1949



LA CAVE—Aggregate conveyor in foreground, access bridge, diversion channel, and camp on Quebec side in background



PINE PORTAGE—By day and by night the work proceeded on the main dam and powerhouse. Showing progress at the end of 1949



TRANSMISSION LINE STRUCTURES—Carrying 230,000-volt, double-circuit lines from Des Joachims generating station on the Ottawa river to Kipling transformer station west of Toronto. Towers 126 feet high, spacing 1,050 feet

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FORTY-SECOND ANNUAL REPORT
OF
The Hydro-Electric Power Commission
of Ontario

FOREWORD

and

Guide to the Report

THE Hydro-Electric Power Commission of Ontario administers a co-operative municipal-ownership enterprise, supplying power throughout the Province of Ontario. The Commission was created in 1906 by special act of the Legislature and followed investigations by advisory commissions appointed as a result of public agitation to conserve the water powers of Ontario as a valuable asset of the people and to provide a more satisfactory supply of low-cost power in southern Ontario. In 1907 the Power Commission Act (7-Edward VII Ch. 19) was passed amplifying and extending the Act of 1906, and this Act—modified by numerous amending acts which now form part of the Revised Statutes of Ontario, 1937, Chap. 62, and subsequent amending Acts—constitutes the authority under which the Commission operates.

The Hydro-Electric Power Commission of Ontario consists of a Chairman and two Commissioners, all of whom are appointed by the Lieutenant-Governor-in-Council to hold office during pleasure. One of the Commissioners must be a member of the Executive Council and two may be members.

In 1909, work was commenced on a comprehensive transmission system and by the end of 1910 power was being supplied to several municipalities.

The Commission has now been supplying electrical energy for more than thirty-nine years and the Report contains diagrams depicting the growth of the enterprise. During this period the costs of electricity to the consumer have been substantially reduced and the finances of the enterprise have been firmly established.

At the end of 1949 the Commission was serving 1,017 municipalities in Ontario. This number included 27 cities, 122 towns and mining townsites, 316 villages and police villages and 552 townships and improvement districts. With the exception of 15 suburban sections of townships known as "voted areas," the townships and 138 of the smaller villages are now served as an amalgamated rural division of Hydro service with a uniform rate structure. Thus, no matter where rural service is given in Ontario by the Hydro, the rural consumer for the same class of service with the same consumption of electricity pays the same amount on his quarterly bill.

Financial Features of Co-operative Systems

The basic principle governing the financial operations of the undertaking is that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost. Cost includes not only all operating and maintenance charges, interest on capital investment and reserves for renewals or depreciation, for obsolescence and contingencies, and for stabilization of rates, but also a reserve for sinking fund or capital payments on debentures.

The undertaking from its inception has been entirely self-supporting and no contributions have been made from general taxes except for service in rural power districts. In this case the Province, in pursuance of its long established policy of assisting agriculture and with the approval of the urban citizens, assists extension of rural electrical service by a grant-in-aid of the capital cost and in other ways as detailed in the Report.

As the principle of "service at cost" is radically different from that obtaining in private organizations, where profit is the governing feature, it naturally results in different and in some ways unique administrative features.

The undertaking as a whole involves two distinct phases of operations as follows:

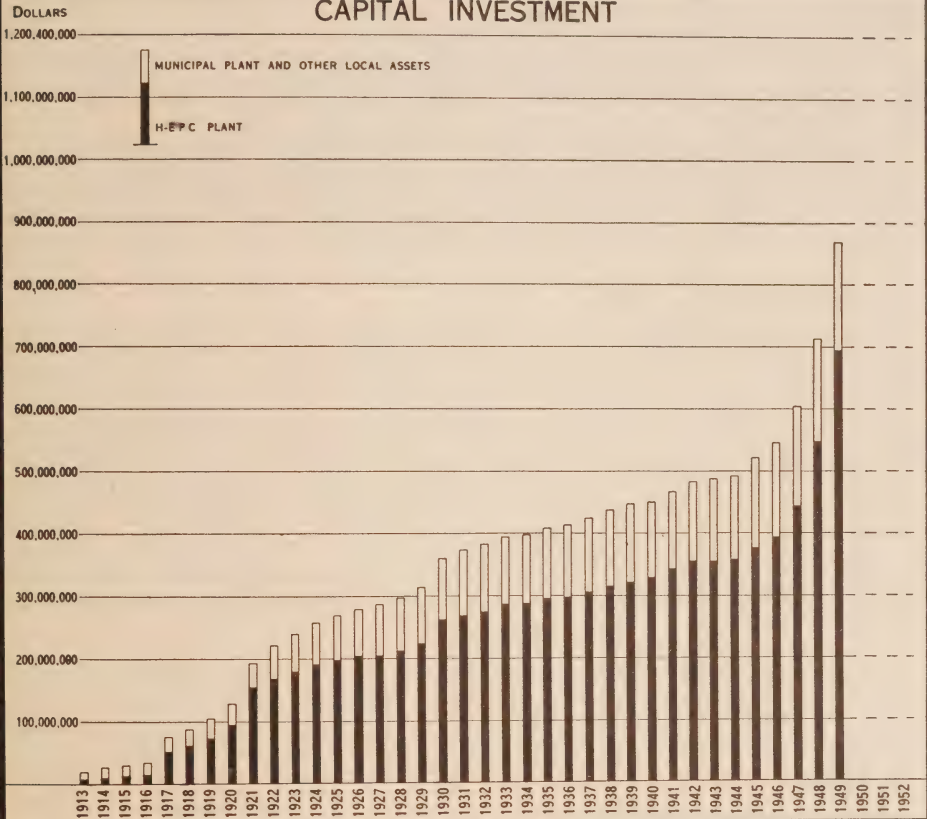
The *First* phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by The Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements of these collective activities of the municipalities are presented in Section IX of the Report. Each system of municipalities, as provided in *The Power Commission Act*, forms an independent financial unit and the accounts are therefore segregated and separately presented for each. In order, however, that there may be a comprehensive presentation of the co-operative activities of the undertaking as a whole, there are presented, in addition, for the two main systems and miscellaneous co-operative activities a balance sheet of assets and liabilities, a statement of operations, a tabulation of fixed assets, and summarized combined statements of various reserves.

The *Second* phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and throughout the rural areas of the Province. For the consolidated rural power districts The Hydro-Electric Power Commission not only provides the power wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the retail distribution of energy to the consumers within the rural operating areas. Summarized financial statements relating to rural electrical service are presented in Section IX of the Report, and a general report on this service is given in Section IV.

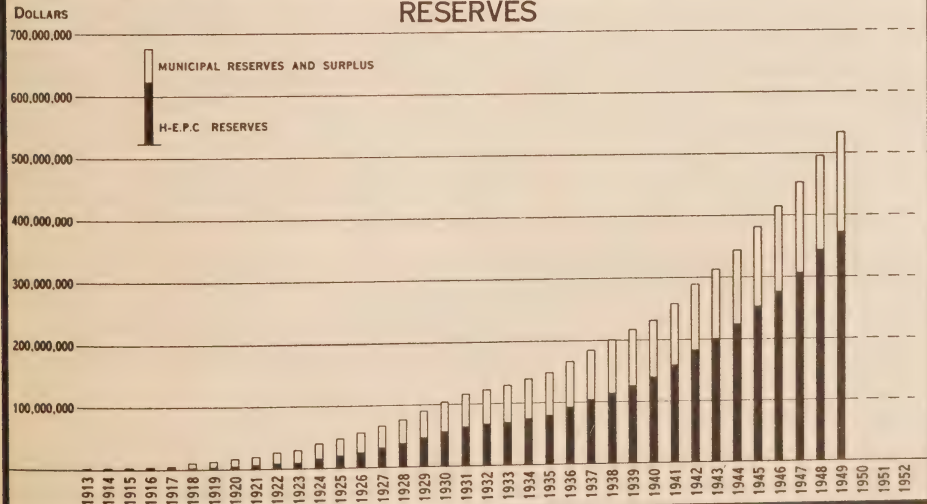
In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of The Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
FORTY YEARS RECORD — ALL SYSTEMS

CAPITAL INVESTMENT



RESERVES



data of the individual urban electrical utilities are presented in Section X of the Report.

For the Northern Ontario Properties held and operated by the Commission in trust for the Province there are also presented in Section IX financial statements including a balance sheet, an operating account, and statements of reserves and capital expenditures.

Further details respecting administration and explanations of the financial tables presented in the Report are given in the introductions to sections IX and X on pages 99 and 161.

The Commission supplies power through three systems, the two co-operative systems of Southern Ontario and Thunder Bay and the system known as the Northern Ontario Properties, comprising the Northeastern region and the Patricia district.

Co-operative Systems Operating

From time to time in accordance with provisions of *The Power Commission Act* various groups of municipalities have been co-ordinated to form systems for the purpose of obtaining power supplies from convenient sources. In time these small systems grew until their transmission lines interlocked with those of adjacent systems and it proved beneficial to consolidate the transmission networks and the financial and administrative features. Early in 1944 the three systems then serving southern Ontario, the Niagara, Georgian Bay and Eastern Ontario systems, were amalgamated to form the *Southern Ontario system* and financially the amalgamation was made retro-active to apply to the fiscal year 1942-43. The three former systems became divisions of the Southern Ontario system.

In 1947 the administration of the Commission was reorganized and a measure of decentralization was set up by dividing the Province into nine regions. Seven of these administer the properties of the *Southern Ontario system* and their administrative boundaries are shown on the map at the end of the Report.

The frequency in the Southern Ontario system is being standardized at 60 cycles, but at the moment the municipalities within the Western, West Central, Niagara and Toronto regions are mostly served with 25-cycle power supplied from plants on the Niagara river, supplemented with power transmitted from generating stations on the Ottawa river, and power purchased from Quebec companies. The municipalities of the Georgian Bay, East Central and Eastern regions are supplied with 60-cycle power from local water-power developments, from power purchased from other sources, and from interconnection with the rest of the Southern Ontario system.

The *Thunder Bay system* forms part of the area administered by the Northwestern region and comprises the cities of Port Arthur and Fort William, certain smaller municipalities, rural operating areas and the mining district of Longlac. Developments on the Nipigon, Aguasabon and Kaministiquia rivers supply 60-cycle power.

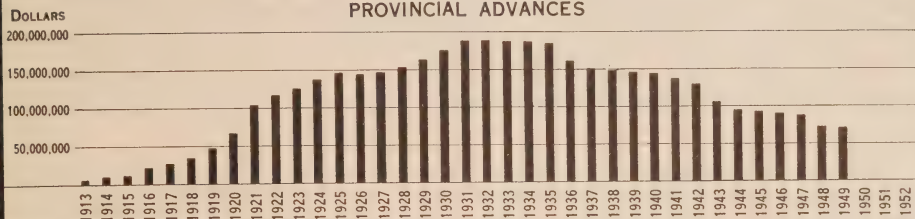
Northern Ontario Properties

In addition to its operations on behalf of the partner municipalities, the Commission, under an agreement with the Province, holds and operates

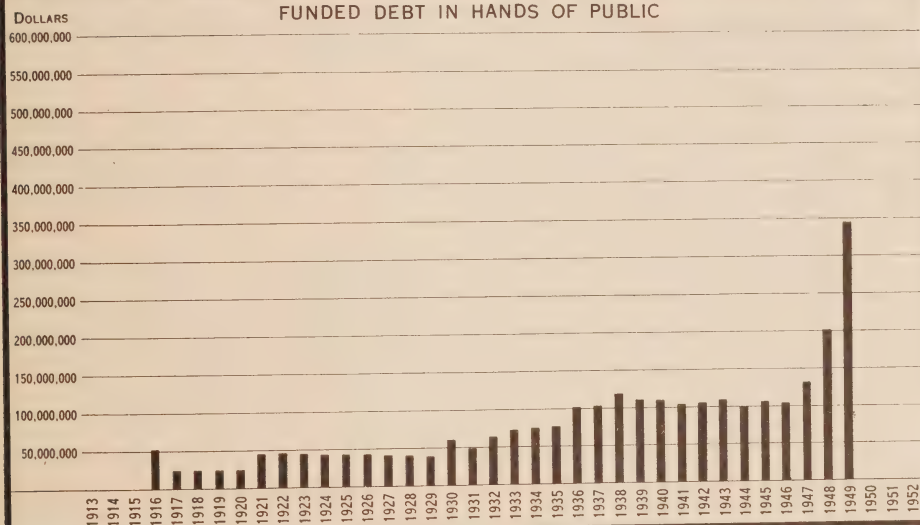
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

PROVINCIAL ADVANCES AND FUNDED DEBT

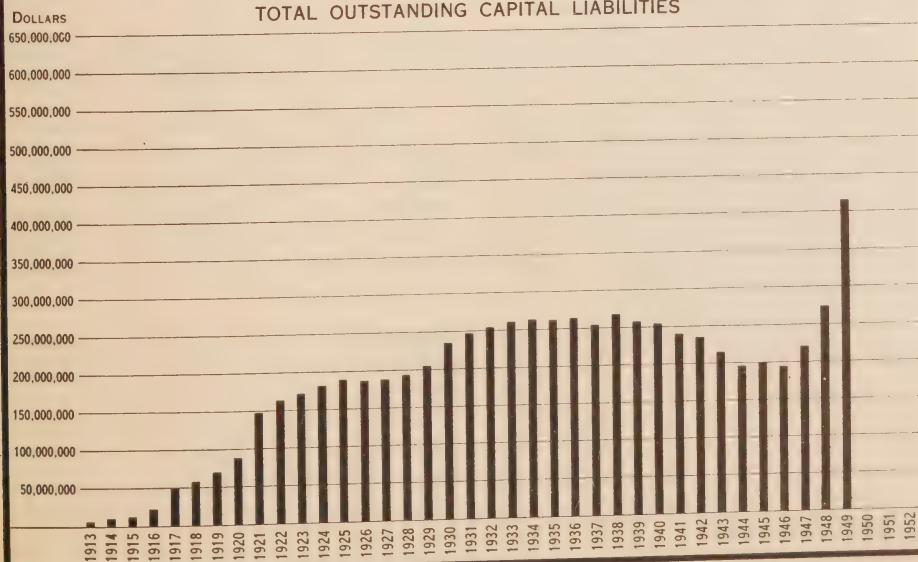
PROVINCIAL ADVANCES



FUNDED DEBT IN HANDS OF PUBLIC



TOTAL OUTSTANDING CAPITAL LIABILITIES



the Northern Ontario Properties in trust for the Province. For the purposes of financial administration these properties are treated as one unit.

The Northern Ontario Properties comprise the Abitibi, Timiskaming, Sudbury and Nipissing districts administered by the Northeastern region and the Patricia and Rainy River districts administered by the Northwestern region. The Rainy River district derives its power from the Thunder Bay system; the other districts in the Northern Ontario Properties are supplied from local water-power developments. All power supplies are at 60 cycles, except from Abitibi Canyon development and three plants in Timiskaming district.

The geographical boundaries of the Northwestern and Northeastern regions are shown on a map of the Northern Ontario Properties at the end of the Report.

The power supplies for the systems and northern Ontario districts are listed in the first table of Section I on pages 12 to 15.

The Annual Report

The table of contents, pages xxv and xxvi, lists the matters dealt with in the Report. At the end of the Report there is a comprehensive index. To those not conversant with the Commission's Reports, the following notes will be useful.

In Section I, pages 11 to 35, dealing with the operations of the systems, are a number of diagrams showing graphically the monthly loads on the several systems and districts. Tables are also presented showing the amounts of power taken by the urban municipal utilities during the past two years, the frequency of supply to each, and the date of first delivery of power.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section IV on pages 51 to 64.

In Section VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

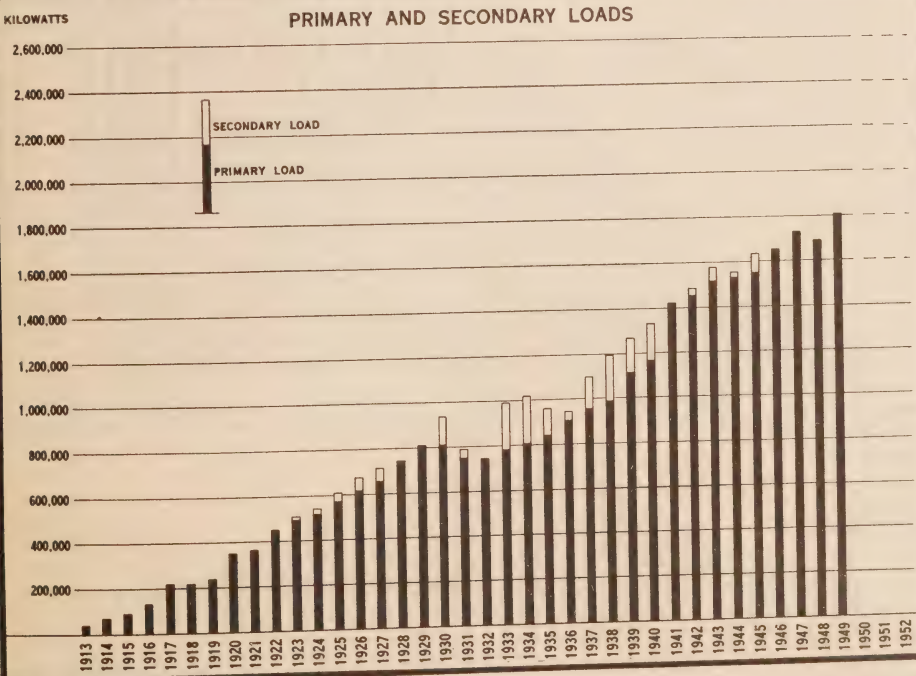
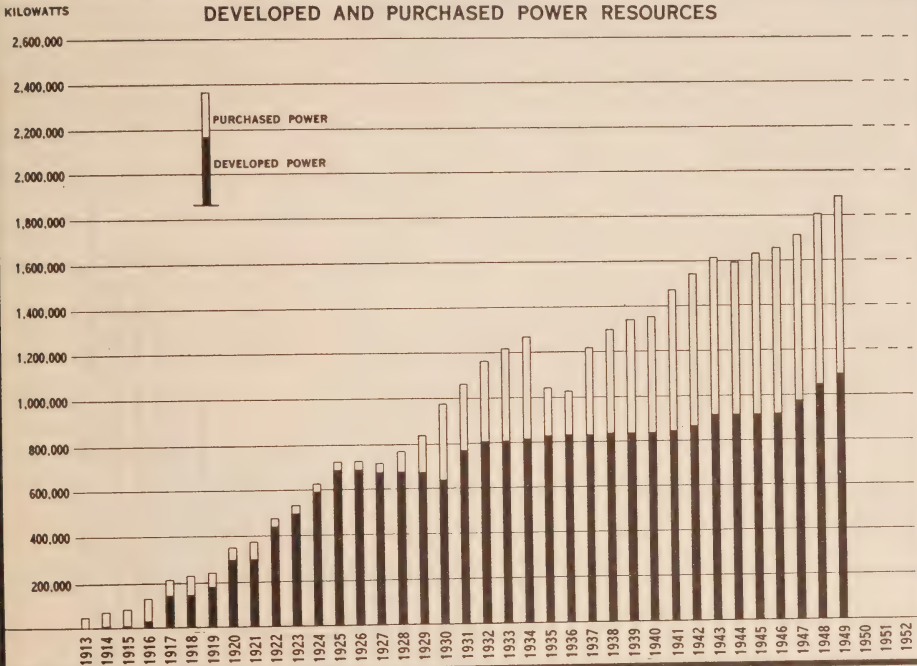
About one-half of the Report is devoted to financial and other statistical data which are presented in two sections, IX and X already referred to above.

Frequent enquiries for the rates for service to consumers are received by the Commission. For the urban municipalities served by the Commission these are given in Statement "C" starting on page 286; for the rural power districts they are given in Appendix II on page 337. Certain statistical data resulting from the application of the rates in urban utilities are given in Statement "D". This statement is prefaced by a special introduction starting on page 306.

In its Annual Reports the Commission aims to present a comprehensive record of the activities of the whole undertaking under its administration, and explanatory statements are therefore suitably placed throughout the Report. The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases the enquiries can satisfactorily be answered by supplying or directing attention to information presented in the Annual Report.

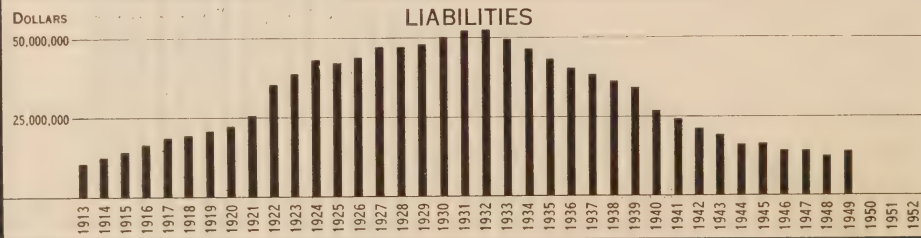
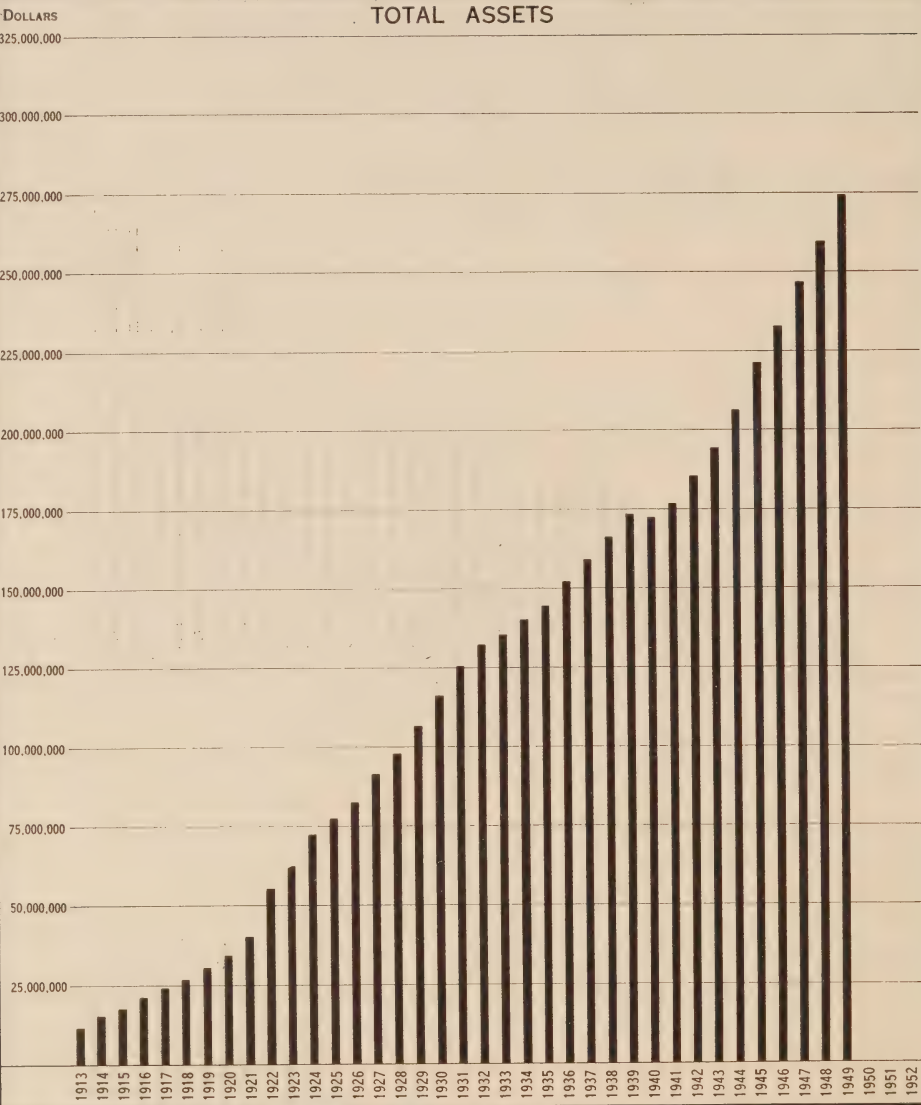
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

FORTY YEARS RECORD — SOUTHERN ONTARIO SYSTEM



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

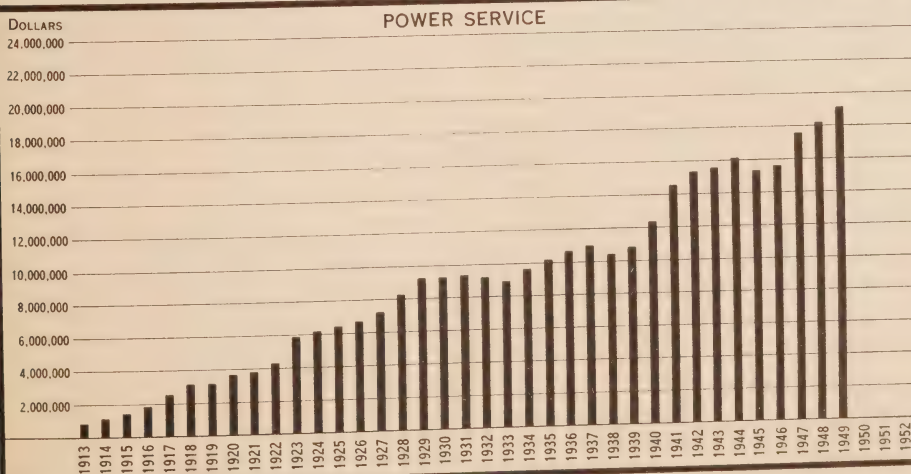
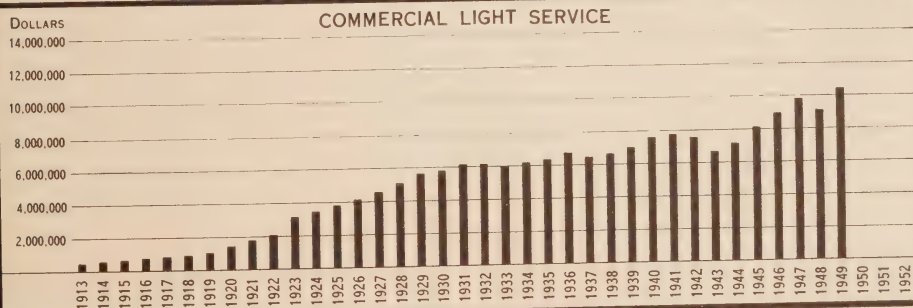
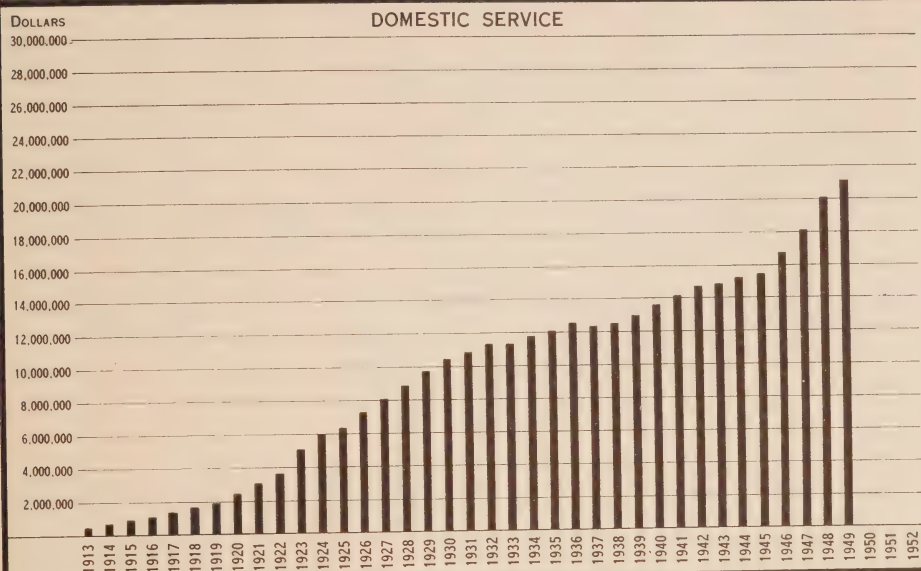
HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES
FORTY YEARS RECORD



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

HYDRO UTILITIES OF CO-OPERATING URBAN MUNICIPALITIES

FORTY YEARS REVENUES



SECTION I

OPERATION OF THE SYSTEMS

Output Exceeds Previous Record—Municipal and Rural Loads Increase—Loads of Heavy Industries Recede—Deficient Precipitation Reduces Power Supply—Restrictions Again Necessary

IN THE provision of electric power for the domestic, commercial, rural, municipal and industrial needs of the Province, The Hydro-Electric Power Commission of Ontario operated 58 hydro-electric generating stations, which have a maximum normal operating capacity of 1,495,200 kilowatts and produced 9,450,076,659 kilowatt-hours in the fiscal year ended October 31, 1949. In addition the Commission had contracts for the purchase of power totalling 734,706 kilowatts, from which it received 4,582,873,331 kilowatt-hours. Thus the Commission generated and purchased 14,032,949,990 kilowatt-hours, an increase of 3.5 per cent over that produced in the previous year. Although this was an all-time high in production, it was nevertheless insufficient to meet the unprecedented demands for power.

The Commission supplies power through three systems; the two co-operative systems of Southern Ontario and Thunder Bay, and the system known as the Northern Ontario Properties operated in trust for the Province of Ontario. As the physical and operating conditions differ greatly in the three systems, they will be dealt with separately in this section of the Report.

SOUTHERN ONTARIO SYSTEM

Load Trends

The maximum peak load on the Southern Ontario system during the fiscal year, November 1, 1948 to October 31, 1949, was 1,743,973 kilowatts, exceeding the corresponding peak of the previous year by 15,997 kilowatts, or 0.9 per cent. The energy output from both generated and purchased sources totalled 11,380,290,565 kilowatt-hours, showing an increase over the output in the previous year of 1.5 per cent.

On most working days throughout the year primary peak demands exceeded resources, and restrictions in a modified form were necessary to

TOTAL POWER GENERATED

POWER GENERATED IN

Generating stations	Maximum normal plant capacity	
	October 31, 1949	
	kilowatts	horsepower
SOUTHERN ONTARIO SYSTEM		
ON NIAGARA AND OTTAWA RIVERS		
Queenston-Chippawa—Niagara river.....	†375,000	502,681
“Ontario Power”—Niagara river.....	†135,000	180,965
“Toronto Power”—Niagara river.....	†108,000	144,772
Chats Falls (Ontario half)—Ottawa river.....	† 85,000	113,941
DeCew Falls (25-cycle)—Welland canal.....	†116,000	155,496
DeCew Falls (66⅔-cycle)—Welland canal.....	37,000	49,598
Diesel-electric installation (66⅔ cycle).....	2,000	2,681
IN EASTERN ONTARIO		
Stewartville—Madawaska river.....	63,000	84,450
Calabogie—Madawaska river.....	4,500	6,032
Barrett Chute—Madawaska river.....	42,000	56,300
Galetta—Mississippi river.....	800	1,072
Carleton Place—Mississippi river.....	200	268
High Falls—Mississippi river.....	2,500	3,351
Sidney—Dam No. 2—Trent river.....	3,400	4,558
Frankford—Dam No. 5—Trent river.....	2,600	3,485
Sills Island—Dam No. 6—Trent river.....	1,600	2,145
Meyersburg—Dam No. 8—Trent river.....	5,200	6,971
Hague's Reach—Dam No. 9—Trent river.....	3,400	4,558
Ranney Falls—Dam No. 10—Trent river.....	8,600	11,528
Seymour—Dam No. 11—Trent river.....	3,100	4,155
Heely Falls—Dam No. 14—Trent river.....	11,400	15,282
Auburn—Dam No. 18—Otonabee river.....	1,800	2,413
Lakefield—Otonabee river.....	1,700	2,279
Fenelon Falls—Dam No. 30—Sturgeon river.....	700	938
IN GEORGIAN BAY AREA		
Big Eddy—Muskoka river.....	7,100	9,517
Ragged Rapids—Muskoka river.....	7,500	10,054
Bala No. 1 and No. 2—Muskoka river.....	400	536
South Falls—South Muskoka river.....	4,200	5,630
Hanna Chute—South Muskoka river.....	1,200	1,609
Trethewey Falls—South Muskoka river.....	1,700	2,279
Big Chute—Severn river.....	4,300	5,764
Wasdells Falls—Severn river.....	900	1,206
Eugenia Falls—Beaver river.....	5,600	7,507
Walkerton—Saugeen river.....	400	536
Hanover—Saugeen river.....	300	402
THUNDER BAY SYSTEM		
Cameron Falls—Nipigon river.....	55,000	73,727
Alexander—Nipigon river.....	53,000	71,046
Aguasabon—Aguasabon river.....	40,000	53,619
Kakabeka—Kaministiquia river.....	27,700	37,131

CAUTION:

The figures for “Maximum normal plant capacity” reflect the capacity of the various plants under the most favourable operating conditions that can reasonably be considered as normal, taking into consideration turbine capacity as well as generator capacity, and also the net operating head and available water supply.

Owing, among other things, to changes in generating equipment due to wear and tear or the replacement of parts, also to changes in limitations governing water levels and effective net heads, the maximum normal plant capacity is not a fixed quantity but is one which must be revised from time to time.

AND PURCHASED—ALL SYSTEMS

COMMISSION STATIONS

Peak load during fiscal year ended				Total energy output during fiscal year ended	
October 31, 1948		October 31, 1949		Oct. 31, 1948	Oct. 31, 1949
kilowatts	horsepower	kilowatts	horsepower	kilowatt-hours	kilowatt-hours
367,500	492,627	370,000	495,979	2,758,464,000	2,678,592,000
137,000	183,646	138,000	184,987	1,146,137,300	1,164,858,300
107,000	143,432	108,000	144,772	900,855,100	888,159,800
88,000	117,962	86,000	115,281	391,357,050	418,496,650
127,200	170,509	124,000	166,220	512,521,700	585,646,900
38,800	52,011	39,500	52,949	186,951,500	185,200,100
.....	.....	2,300	3,083	.....	1,432,520
44,000	58,981	66,000	88,472	11,901,700	233,626,700
4,920	6,595	4,620	6,193	27,541,540	24,754,800
43,000	57,641	42,000	56,300	197,796,000	198,919,400
885	1,186	890	1,193	4,495,000	2,940,600
300	402	300	402	33,400	338,960
2,600	3,485	2,625	3,519	13,247,040	12,313,920
3,825	5,127	3,900	5,228	20,126,400	19,415,400
3,125	4,189	2,925	3,921	16,840,800	15,314,400
1,710	2,292	1,695	2,272	10,920,080	9,701,040
5,775	7,741	5,810	7,788	35,354,340	32,324,100
3,750	5,027	3,725	4,993	22,355,500	20,892,390
8,895	11,924	8,960	12,011	52,845,640	51,058,320
3,350	4,491	3,375	4,524	19,185,600	18,156,480
12,000	16,086	12,000	16,086	68,183,320	67,788,180
2,000	2,681	1,955	2,621	11,491,150	10,906,260
1,830	2,453	1,830	2,453	9,472,880	8,257,140
675	905	720	965	3,793,505	4,842,330
8,250	11,059	8,250	11,059	26,462,500	37,025,700
8,400	11,260	8,100	10,858	30,072,820	40,906,410
330	442	360	483	1,368,720	1,765,720
4,350	5,831	4,400	5,898	25,449,405	27,743,805
1,300	1,743	1,300	1,743	7,953,000	8,752,400
1,700	2,279	1,700	2,279	7,766,400	10,754,400
4,530	6,072	4,500	6,032	26,765,160	25,809,320
510	684	910	1,220	3,233,784	1,806,393
5,800	7,775	5,520	7,399	13,782,400	16,946,800
360	483	360	483	2,073,400	1,876,900
290	389	290	389	1,327,104	1,378,944
59,000	79,088	58,500	78,418	472,771,000	437,876,900
53,000	71,046	54,000	72,386	400,550,400	373,738,200
24,500	32,842	47,000	63,003	3,108,630	213,908,390
.....	.....	27,900	37,399	.....	85,307,420

It is particularly important to bear in mind that the column headed "Maximum normal plant capacity" cannot be taken as an indication of the dependable capacity of the various plants; in some cases it is, but in many cases it is not. Principal among the factors which govern the maximum dependable capacity of an hydraulic power development and which are not reflected in column headed "Maximum normal plant capacity," are abnormal variations in water supply and operating limitations encountered when developments are so situated on a given stream as to be affected by one another.

†25-cycle stations, others 60-cycle, except as indicated.

POWER GENERATED

Generating stations	Maximum normal plant capacity	
	October 31, 1949	
	kilowatts	horsepower
NORTHERN ONTARIO PROPERTIES		
ABITIBI DISTRICT		
Abitibi Canyon—Abitibi river.....	†184,000	246,649
TIMISKAMING DISTRICT		
Matabitchuan—Matabitchuan river.....	9,000	12,064
Upper Notch—Montreal river (one unit in service)...	4,200	5,630
Fountain Falls—Montreal river.....	2,000	2,681
Hound Chute—Montreal river.....	3,600	4,826
Indian Chute—Montreal river.....	2,800	3,753
Lower Sturgeon—Mattagami river.....	†6,000	8,043
Sandy Falls—Mattagami river.....	†3,200	4,290
Wawaitein—Mattagami river.....	†9,100	12,198
SUDBURY DISTRICT		
Coniston—Wanapitei river.....	4,400	5,898
McVittie—Wanapitei river.....	2,300	3,083
Stinson—Wanapitei river.....	5,600	7,507
Crystal Falls—Sturgeon river.....	8,000	10,724
NIPISSING DISTRICT		
Nipissing—South river.....	1,600	2,145
Bingham Chute—South river.....	900	1,206
Elliott Chute—South river.....	1,300	1,743
La Cave (temporary steam plant).....		
MANITOULIN DISTRICT		
Kagawong—Kagawong river (hydraulic & diesel units)	1,300	1,743
PATRICIA DISTRICT		
Rat Rapids—Albany river.....	2,500	3,351
Ear Falls—English river.....	19,600	26,274
Total generated by the H-E.P.C.....	1,495,200	2,004,290

†25-cycle stations, others 60-cycle.

POWER PURCHASED

Power sources	Contract amount		Total purchased during the fiscal year ended	
	October 31, 1949		Oct. 31, 1948	Oct. 31, 1949
	kilo-watts	horse-power	kilowatt-hours	kilowatt-hours
Southern Ontario System				
Canadian Niagara Power Co. (contract units)	14,920	20,000	91,239,200	124,434,300
Canadian Niagara Power Co. (special purchase)				12,950,000
Department of Transport (Welland ship canal)			4,091,900	410,000
Polymer Corporation	22,500	30,161		58,520,220
Gatineau Power Co.	253,640	340,000	1,423,937,700	1,358,811,300
Ottawa Valley Power Co.	80,568	108,000	394,057,150	421,479,450
Beauharnois Light, Heat and Power Co.	223,800	300,000	1,848,900,000	1,796,830,000
MacLaren-Quebec Power Co.	138,010	185,000	854,176,000	746,079,000
M. F. Beach Estate	373	500	2,824,800	3,126,000
Rideau Power Co.	298	400	2,430,400	2,366,400
Campbellford Water and Light Commission.	597	800	8,463,700	5,245,400
Miscellaneous			12,942,567	21,335,013
Thunder Bay System				
Kaministiquia Power Co.			25,257,600	3,955,520
Miscellaneous			474,128	946,440
Northern Ontario Properties				
Abitibi Power & Paper Co.			5,399,456	23,691,158
Miscellaneous				2,693,130
Total purchased	734,706	984,861	4,674,194,601	4,582,873,331

IN COMMISSION STATIONS (Continued)

Peak load during fiscal year ended				Total energy output during fiscal year ended	
October 31, 1948		October 31, 1949		Oct. 31, 1948	Oct. 31, 1949
kilowatts	horsepower	kilowatts	horsepower	kilowatt-hours	kilowatt-hours
180,000	241,287	181,000	242,627	1,022,290,000	1,028,830,000
9,000	12,064	8,800	11,796	50,725,100	47,487,800
.....	.....	4,300	5,764	.....	2,550,000
2,000	2,681	2,100	2,815	13,666,500	14,064,900
3,600	4,826	3,800	5,094	20,384,990	24,517,091
3,030	4,062	3,100	4,155	14,103,000	16,223,000
6,000	8,043	6,000	8,043	32,156,605	42,965,015
3,200	4,290	3,100	4,155	17,568,304	12,190,484
7,500	10,054	10,400	13,941	34,920,692	47,018,938
5,050	6,769	4,280	5,737	23,018,400	26,252,000
2,400	3,217	2,440	3,271	15,740,640	17,929,280
5,820	7,802	5,850	7,842	20,377,310	26,040,140
8,200	10,992	8,450	11,327	34,219,600	45,634,800
1,660	2,225	1,630	2,185	8,617,840	8,933,680
960	1,287	940	1,260	4,805,900	5,094,400
1,390	1,863	1,400	1,877	4,934,000	5,647,600
.....	.....	1,850	2,480	.....	75,199
992	1,330	1,233	1,653	4,057,660	4,881,860
2,520	3,378	2,620	3,512	15,416,680	13,856,080
16,000	21,448	19,700	26,408	98,335,440	120,350,000
*	*	*	*	8,879,893,929	9,450,076,659

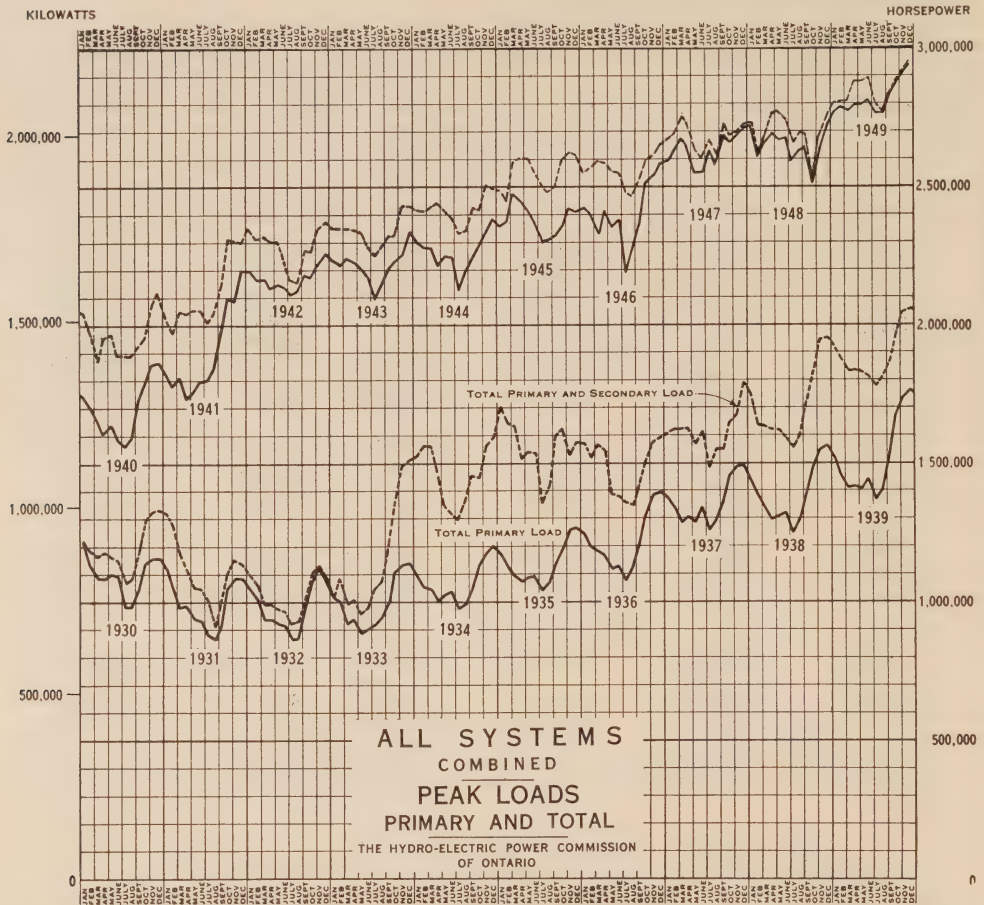
SUMMARY OF POWER GENERATED AND PURCHASED

	kilowatts	horsepower
Power purchased, contract amount, 1949.....	734,706	984,861
Maximum normal plant capacity, 1949.....	1,495,200	2,004,290
Total available capacity, generated and purchased, 1949.....	2,229,906	2,989,151
Total available capacity, generated and purchased, 1948.....	2,149,076	2,880,800
Difference (increase).....	80,830	108,351
	kilowatt-hours	
Total energy purchased, 1949.....	4,582,873,331	
Total energy generated, 1949.....	9,450,076,659	
Total energy generated and purchased, 1949.....	14,032,949,990	
Total energy generated and purchased, 1948.....	13,554,088,530	
Difference (increase).....	478,861,460	

*Because the peak loads on all the various generating stations in a system do not occur coincidentally, the sum of these generating-station peak loads should not be construed as representative of the peak load of that system.

†25-cycle stations; others 60-cycle.

It is proposed in future reports to use kilowatts rather than horsepower as the unit of electrical power. In the above tabulation of generating stations power is expressed in both units using round numbers of kilowatts and their exact equivalents of horsepower, whereas heretofore round numbers of horsepower have been quoted.

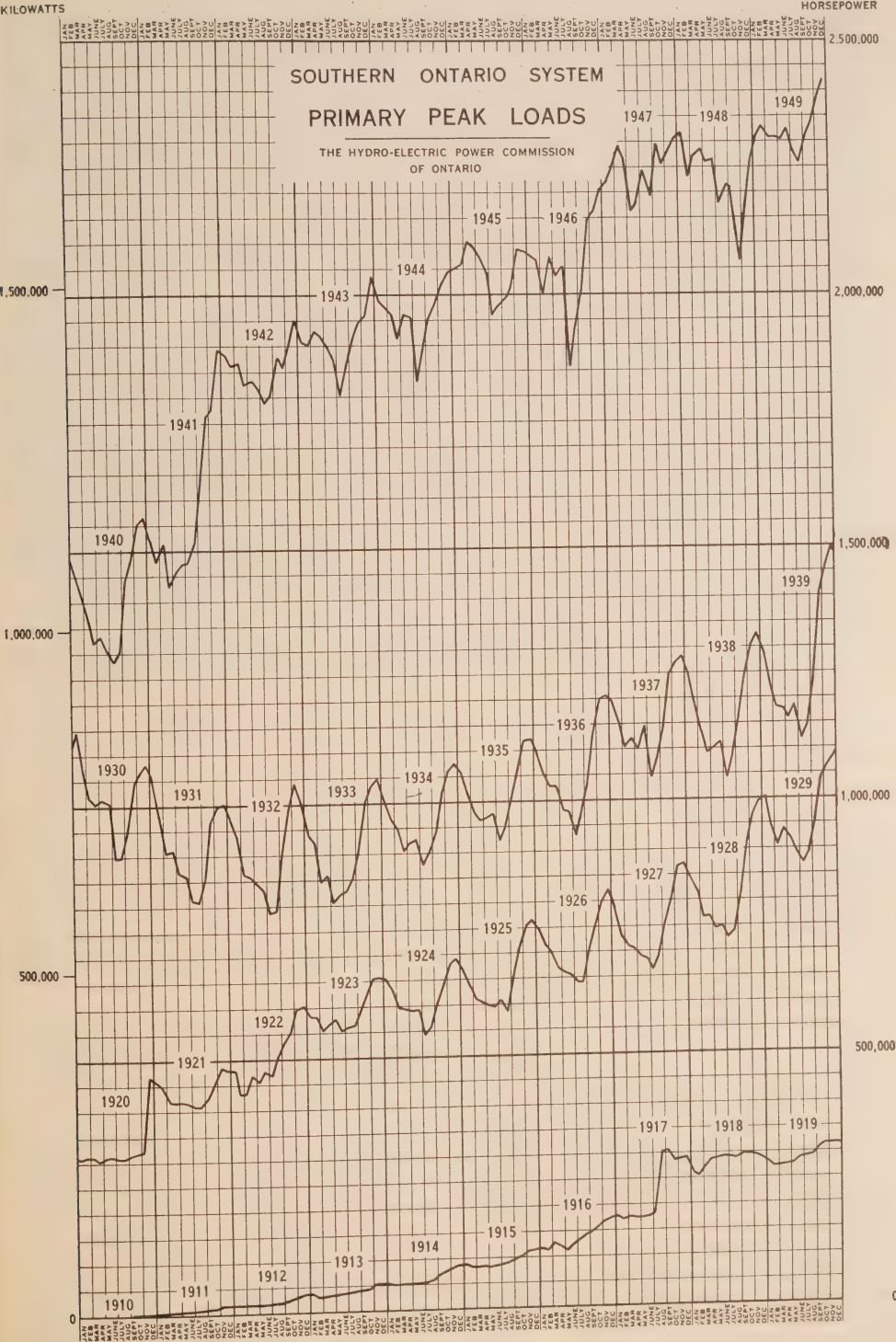


avoid excessive power cuts to heavy industries. Because of restrictions, allocations and daylight saving time, it was difficult to determine the potential load growth in the Southern Ontario system during the fiscal year. However, a survey of the various load sections of the system, indicated that the demands of the heavy industries situated principally in the Niagara district at the end of October 1949 had receded some 60,000 to 70,000 kilowatts from a year ago and that this recession had been offset by municipal and rural growth.

Operation

With the exception of two, 1,000-kilowatt diesel units placed in service at Hamilton and certain minor adjustments in former plant ratings, the maximum normal generating capacity available to the Southern Ontario system remained practically the same as in the previous fiscal year, the adjusted rating for the 35 hydraulic plants plus the capacity of the two small diesel units being 1,048,100 kilowatts.

The output of the Commission's generating stations available to the Southern Ontario system was fully and efficiently utilized throughout the year. At the close of navigation on the Welland ship canal on December 15, 1948, the permissible diversion from the canal was increased 2,500 cubic



feet per second. Through negotiations between the Canadian and the United States governments, a temporary additional diversion from the Niagara river during the non-navigation season on the Welland ship canal became available on December 23, 1948. This increase in diversion permitted the operation of all of the 25-cycle plants in the Niagara region at full output.

Under contract arrangements, initial delivery of 60-cycle steam-generated power from the Polymer Corporation at Sarnia was made on November 1, 1948. Part of this power is used directly in the Sarnia area and part is transmitted to the Westminster frequency-changer and transformer station near London, where interconnections are made with the Southern Ontario system high-voltage network.

The water situation at the close of the previous year was decidedly unfavourable both in Ontario and Quebec and had led to a severe power deficiency in Ontario, necessitating restrictions in the delivery of power to all classes of consumers. The situation improved considerably by the middle of November 1948 when heavy rains occurred and this, followed by a relatively mild and open winter allowed the gradual easing of power restrictions and the complete withdrawal of all restrictions, except on commercial lighting during Monday to Friday daytime hours, on February 15, 1949. On May 16 regulations restricting the use of electricity were further eased when restrictions on interior store lighting were lifted. However, peak demands continued to exceed available resources, necessitating industrial load cutting on most working days throughout the year.

The 1949 spring run-off filled practically all reservoirs in the Southern Ontario system but extremely light precipitation during the summer caused a rapid depletion of storage reserves, and the power situation at the commencement of the 1949-50 winter season again became a matter of grave concern to the Commission.

The water storage reserves of Quebec suppliers were considerably below normal at the end of the fiscal year and the Maclaren-Quebec Power Company reduced its energy delivery by 3,385,000 kilowatt-hours per week below contract commencing October 24, 1949. While the Gatineau Power Company was able to meet its full contract commitments and also assisted by supplying additional daytime power in place of night energy, concern was felt for the continuation of this supply during the winter, because of the low-water reserves available on the Gatineau river.

The seasonal increase in primary power demands during September 1949 made Ontario industrial load cutting progressively greater. Because of this situation, regulations governing the use of electricity similar to those adopted a year previously were placed in force on October 1, 1949.

In addition to the Commission's normal power supply to the Southern Ontario system, some 60,000 kilowatts of excess power and energy were purchased from the Beauharnois Light, Heat and Power Company, and by arrangement with the Niagara-Hudson Power Corporation, delivery of the 45,000 kilowatts covered by "firm" export agreement was withdrawn for use of Canadian consumers for the most part of each day. Additional power up to 37,000 kilowatts was obtained from the Canadian Niagara Power Company. Also, during the power emergencies in the winter of 1948-49 and again at the close of the year, every effort was made to obtain by special



SUPERVISION OF POWER DISTRIBUTION IN SOUTHERN ONTARIO

On this power supervisor's board are recorded the production of power at certain major generating stations, the loading of frequency-changer units, and other quantities, such as the level of water in the Queenston generating station forebay, to enable him to regulate the distribution of power throughout the system.

arrangement any small amounts of power wherever and whenever available. During the year approximately 695,000,000 kilowatt-hours were purchased for the Southern Ontario system in excess of deliveries made under the main purchased power agreements, and approximately 44,000,000 kilowatt-hours were obtained through the arrangement with the Niagara-Hudson Corporation releasing the export of "firm power."

A mild and open winter kept ice troubles at generating stations to a minimum. Storms accompanied by high winds caused much damage to transmission lines in the western portion of the system on two occasions, and on two other occasions faults developing on the 230,000-volt lines caused a complete collapse of the 230,000-volt system, interrupting all eastern power supply. Apart from the above and the problem of assuring a fair and equitable distribution of the available supply of power to all classes of consumers, no serious difficulties were encountered during the year in the operation of the Southern Ontario system.

During the year, a number of new transmission lines, transformer and distributing stations were placed in service to take care of new and increasing loads and also to prepare for the frequency change-over from 25 to 60 cycles. Details are given in Section VI of this Report.

SUMMATION OF PEAK LOADS IN KILOWATTS AS SUPPLIED TO URBAN MUNICIPAL UTILITIES AND FOR RURAL HYDRO SERVICE, SHOWING TREND OF POWER DEMANDS 1948-1949

System	Total of peak loads in kilowatts		Net increase in kilowatts	Number of utilities with			Total
	July to Dec. 1948	July to Dec. 1949		De- creases	Increases	No change	
Urban Municipal Utilities							
Southern Ontario....	1,159,673	1,286,508	126,835	36	272	2	310
Thunder Bay.....	42,852	55,209	12,357	1	8	0	9
Northern Ontario Properties.....	35,538	39,451	3,913	4	17	0	21
Rural Hydro Service							
Southern Ontario....	176,623	213,276	36,653	1	87	0	88
Thunder Bay.....	1,553	2,242	689	0	2	0	2
Northern Ontario Properties.....	4,390	7,008	2,618	0	6	0	6
Total, Rural Service.	182,566	222,526	39,960	1	95	0	96

NOTE: The yearly peak demands of the individual municipal Hydro utilities do not all occur during the same month of the year nor, for any given municipality, do they always occur in the same month in successive years; in nearly all cases, however, the yearly peak occurs during the second half of the calendar year. For this reason a comparison of the peaks during the second half of the year as shown in the tables of this section shows most satisfactorily the general trend of the local loads. The loads given above for rural Hydro service are a summation of the loads in the various operational districts and are similarly obtained.

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Acton.....	Jan. 1913	25	1,839.6	1,903.2		63.6
Agincourt.....	Nov. 1922	25	329.7	520.8		191.1
Ailsa Craig.....	Jan. 1916	25	199.2	185.3	13.9	
Alexandria.....	Jan. 1921	60	460.4	534.2		73.8
Alliston.....	June 1918	60	610.1	666.7		56.6
Almonte.....	Feb. 1945	60	646.4	667.3		20.9
Alvinston.....	April 1922	25	134.2	153.8		19.6
Amherstburg.....	Feb. 1919	25	1,318.4	1,589.2		270.8
Ancaster Twp.—V.A....	Jan. 1914	25	470.9	594.7		123.8
Apple Hill.....	April 1921	60	53.1	56.5		3.4
Arkona.....	Dec. 1926	25	100.8	117.3		16.5
Arnprior.....	June 1929	60	1,648.0	1,744.9		96.9
Arthur.....	Dec. 1916	60	247.0	305.0		58.0
Athens.....	Jan. 1929	60	163.0	158.8	4.2	
Aurora.....	Dec. 1920	25	1,667.2	1,716.9		49.7

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Aylmer.....	Mar. 1918	25	1,360.0	1,560.7		192.7
Ayr.....	Jan. 1915	25	348.1	375.0		26.9
Baden.....	May 1912	25	586.1	705.4		119.3
Bala.....	April 1929	60	487.0	510.8		23.8
Barrie.....	April 1913	60	4,870.6	5,485.0		614.4
Bath.....	Nov. 1931	60	66.8	89.8		23.0
Beachville.....	Aug. 1912	25	648.0	731.6		83.6
Beamsville.....	Jan. 1930	25	683.1	722.3		39.2
Beaverton.....	Nov. 1914	60	426.9	443.8		16.9
Beeton.....	Aug. 1918	60	137.3	154.4		17.1
Belle River.....	Dec. 1922	25	292.3	338.6		46.3
Belleville.....	Mar. 1916	60	8,417.5	9,519.1		1,101.6
Blenheim.....	Nov. 1915	25	644.6	825.9		181.3
Bloomfield.....	April 1919	60	221.8	235.7		13.9
Blyth.....	July 1924	25	227.0	304.9		77.9
Bobcaygeon.....	July 1946	60	309.1	325.2		16.1
Bolton.....	Feb. 1915	25	269.6	291.7		22.1
Bothwell.....	Sept. 1915	25	145.2	207.0		61.8
Bowmanville.....	Mar. 1916	60	3,119.1	3,462.1		343.0
Bradford.....	Oct. 1918	60	481.4	585.1		103.7
Braeside.....	June 1929	60	234.3	227.5	6.8	
Brampton.....	Nov. 1911	25	3,408.2	3,845.0		436.8
Brantford.....	Feb. 1914	25	20,315.3	23,091.5		2,776.2
Brantford Twp.—V.A.	Oct. 1915	25	2,702.4	3,311.0		608.6
Brechin.....	Jan. 1915	60	71.8	57.0	14.8	
Bridgeport.....	Mar. 1928	25	284.6	287.2		2.6
Brigden.....	Jan. 1918	25	139.7	148.8		9.1
Brighton.....	Mar. 1916	60	600.5	717.7		117.2
Brockville.....	April 1915	60	6,179.0	7,712.6		533.6
Bronte.....	Jan. 1930	66⅔	238.4	257.6		19.2
Brussels.....	July 1924	25	286.8	311.0		24.2
Burford.....	June 1915	25	384.5	402.2		17.7
Burgessville.....	Nov. 1916	25	97.3	101.8		4.5
Burlington.....	Jan. 1930	66⅔	2,034.2	2,359.8		325.6
Burlington Beach.....	Jan. 1930	25 & 66⅔	577.4	622.4		45.0
Caledonia.....	Oct. 1912	25	427.4	489.4		62.0
Campbellville.....	Jan. 1925	25	78.2	73.8	4.4	
Cannington.....	Nov. 1914	60	368.3	357.0	11.3	
Cardinal.....	July 1930	60	472.4	498.4		26.0
Carleton Place.....	May 1919	60	2,179.7	2,224.2		44.5
Cayuga.....	Nov. 1924	25	223.6	242.6		19.0
Chatham.....	Feb. 1915	25	8,177.6	9,698.5		1,520.9
Chatsworth.....	Dec. 1915	60	127.5	173.0		45.5
Chesley.....	July 1916	60	852.2	862.2		10.0
Chesterville.....	April 1914	60	603.2	598.2	5.0	
Chippawa.....	Sept. 1919	25	410.0	465.6		55.6
Clifford.....	May 1924	25	144.0	182.7		38.7
Clinton.....	Mar. 1914	25	989.4	1,034.0		44.6
Cobden.....	Dec. 1934	60	231.7	277.2		45.5
Cobourg.....	Mar. 1916	60	2,982.1	3,136.4		154.3

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Colborne.....	Mar. 1916	60	307.8	363.0	.....	55.2
Coldwater.....	Mar. 1913	60	203.7	154.9	48.8	.....
Collingwood.....	Mar. 1913	60	3,000.7	3,024.2	.....	23.5
Comber.....	May 1915	25	154.4	171.3	.....	16.9
Cookstown.....	May 1918	60	144.9	148.0	.....	3.1
Cottam.....	Feb. 1919	25	124.6	147.0	.....	22.4
Courtright.....	Dec. 1923	25	67.2	76.7	.....	9.5
Creemore.....	Nov. 1914	60	212.6	228.9	.....	16.3
Dashwood.....	Sept. 1917	25	167.0	179.0	.....	12.0
Delaware.....	Mar. 1915	25	99.6	124.2	.....	24.6
Delhi.....	May 1938	25	764.1	970.0	.....	205.9
Deseronto.....	Mar. 1916	60	366.4	373.0	.....	6.6
Dorchester.....	Dec. 1914	25	150.0	161.7	.....	11.7
Drayton.....	Mar. 1918	25	156.1	176.8	.....	20.7
Dresden.....	April 1915	25	662.8	705.4	.....	42.6
Drumbo.....	Dec. 1914	25	139.2	161.6	.....	22.4
Dublin.....	Oct. 1917	25	77.9	80.3	.....	2.6
Dundalk.....	Dec. 1915	60	294.1	302.4	.....	8.3
Dundas.....	Jan. 1911	25	2,862.4	3,226.3	.....	363.9
Dunnville.....	June 1918	25	1,495.2	1,726.5	.....	231.3
Durham.....	Dec. 1915	60	593.8	605.1	.....	11.3
Dutton.....	Sept. 1915	25	228.2	269.8	.....	41.6
East York Twp.—V.A.	Dec. 1923	25 & 60	13,935.7	16,459.9	.....	2,524.2
Elmira.....	Nov. 1913	25	1,574.8	1,774.6	.....	199.8
Elmvale.....	June 1913	60	242.9	281.4	.....	38.5
Elmwood.....	April 1918	60	126.1	133.6	.....	7.5
Elora.....	Nov. 1914	25	608.0	583.8	24.2	.....
Embro.....	Jan. 1915	25	195.9	201.2	.....	5.3
Erieau.....	July 1924	25	275.0	270.0	5.0	.....
Erie Beach.....	July 1925	25	49.6	52.6	.....	3.0
Erin.....	Jan. 1945	60	150.0	150.0	.....	.....
Essex.....	Feb. 1919	25	718.8	884.9	.....	166.1
Etobicoke Twp.—V.A.	Aug. 1917	25	15,683.2	18,384.3	.....	2,701.1
Exeter.....	June 1916	25	1,013.6	1,144.0	.....	130.4
Fergus.....	Nov. 1914	25	1,554.1	1,820.7	.....	266.6
Finch.....	Feb. 1928	60	140.4	169.8	.....	29.4
Flesherton.....	Dec. 1915	60	135.3	155.4	.....	20.1
Fonthill.....	June 1926	25	340.7	434.8	.....	94.1
Forest.....	Mar. 1917	25	658.8	676.3	.....	17.5
Forest Hill.....	Jan. 1938	25	7,378.0	8,432.0	.....	1,054.0
Frankford.....	Oct. 1937	60	271.8	293.0	.....	21.2
Galt.....	May 1911	25	10,994.8	12,359.9	.....	1,365.1
Georgetown.....	Sept. 1913	25	2,426.1	2,364.3	61.8	.....
Glencoe.....	Aug. 1920	25	225.3	261.0	.....	35.7
Goderich.....	Feb. 1914	25	2,064.2	2,102.8	.....	38.6
Grand Valley.....	Dec. 1916	60	250.3	241.8	8.5	.....
Granton.....	July 1916	25	84.4	87.8	.....	3.4
Gravenhurst.....	Nov. 1915	60	1,465.5	1,446.5	19.0	.....
Grimsby.....	Jan. 1930	25	952.5	1,197.5	.....	245.0
Guelph.....	Dec. 1910	25	11,979.9	13,758.0	.....	1,778.1

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Hagersville.....	Sept. 1913	25	1,043.8	1,206.2	.....	162.4
		60,				
Hamilton.....	Feb. 1911	25 & 66 $\frac{2}{3}$	134,852.2	158,673.6	.....	23,821.4
Hanover.....	Sept. 1916	60	1,844.4	2,045.4	.....	201.0
Harriston.....	July 1916	25	643.0	677.9	.....	34.9
Harrow.....	Feb. 1919	25	799.1	756.6	42.5	.....
Hastings.....	June 1931	60	194.7	215.9	.....	21.2
Havelock.....	Feb. 1921	60	240.9	291.4	.....	50.5
Hensall.....	Jan. 1917	25	305.0	325.0	.....	20.0
Hepworth.....	April 1930	60	54.4	69.2	.....	14.8
Hespeler.....	Feb. 1911	25	3,093.2	3,359.2	.....	266.0
Highgate.....	Dec. 1916	25	98.8	126.3	.....	27.5
Holstein.....	May 1916	60	34.5	33.2	1.3	.....
Humberstone.....	Oct. 1924	25	673.7	815.0	.....	141.3
Huntsville.....	Sept. 1916	60	1,391.6	1,626.0	.....	234.4
Ingersoll.....	May 1911	25	3,211.2	3,494.5	.....	283.3
Iroquois.....	Feb. 1940	60	344.3	394.0	.....	49.7
Jarvis.....	Feb. 1924	25	176.1	219.7	.....	43.6
Kemptville.....	Dec. 1921	60	372.8	556.0	.....	183.2
Kincardine.....	Mar. 1921	60	1,121.8	1,191.2	.....	69.4
Kingston.....	Dec. 1917	60	17,353.7	20,424.3	.....	3,070.6
Kingsville.....	Feb. 1919	25	779.1	928.6	.....	149.5
Kirkfield.....	June 1920	60	36.7	37.9	.....	1.2
Kitchener.....	Jan. 1911	25	27,585.9	30,150.6	.....	2,564.7
Lakefield.....	Aug. 1920	60	535.9	666.0	.....	130.1
Lambeth.....	April 1915	25	204.5	262.0	.....	57.5
Lanark.....	Sept. 1921	60	148.6	169.0	.....	20.4
Lancaster.....	May 1921	60	69.7	85.2	.....	15.5
La Salle.....	Nov. 1925	25	414.5	516.6	.....	102.0
Leamington.....	Feb. 1919	25	2,692.2	2,615.5	76.7	.....
Lindsay.....	Mar. 1916	60	3,980.3	4,054.4	.....	74.1
Listowel.....	June 1916	25	1,663.5	1,729.5	.....	66.0
London.....	Jan. 1911	25	37,610.7	40,937.6	.....	3,326.9
London Twp.—V.A.....	Sept. 1917	25	646.7	831.9	.....	185.2
Long Branch.....	Jan. 1931	25	2,230.2	2,673.9	.....	443.7
Lucan.....	Feb. 1915	25	312.7	328.4	.....	15.7
Lucknow.....	Jan. 1921	60	491.5	449.0	42.5	.....
Lynden.....	Nov. 1915	25	149.1	156.2	.....	7.1
MacTier.....	April 1929	60	.....	.....	.....	.....
Madoc.....	Mar. 1916	60	381.9	451.8	.....	69.9
Markdale.....	Mar. 1916	60	261.4	293.8	.....	32.4
Markham.....	April 1920	25	458.2	514.9	.....	56.7
Marmora.....	Jan. 1921	60	198.8	217.2	.....	18.4
Martintown.....	May 1921	60	67.0	73.8	.....	6.8
Maxville.....	Feb. 1921	60	154.0	176.2	.....	22.2
Meaford.....	Jan. 1924	60	1,094.5	1,232.4	.....	137.9
Merlin.....	Dec. 1922	25	126.3	150.6	.....	24.3
Merritton.....	Nov. 1920	25	9,057.7	10,269.7	.....	1,212.0
Midland.....	July 1911	60	4,251.1	4,607.0	.....	355.9
Mildmay.....	April 1930	60	221.6	230.2	.....	8.6
Millbrook.....	Mar. 1916	60	164.6	186.4	.....	21.8

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Milton.....	April 1913	25	1,658.0	1,810.5	.....	152.5
Milverton.....	June 1916	25	497.4	469.5	27.9	.....
Mimico.....	May 1912	25	3,311.0	3,736.5	.....	425.5
Mitchell.....	Sept. 1911	25	1,019.8	1,036.6	.....	16.8
Moorefield.....	Mar. 1918	25	70.4	86.9	.....	16.5
Morrisburg.....	June 1938	60	587.1	589.1	.....	2.0
Mount Brydges.....	Mar. 1915	25	122.3	112.1	10.2	.....
Mount Forest.....	Dec. 1915	60	791.0	767.7	23.3	.....
Napanee.....	Mar. 1916	60	1,656.8	1,751.1	.....	94.3
Neustadt.....	Dec. 1918	60	102.5	116.4	.....	13.9
Newboro.....	Dec. 1948	60	36.0	46.3	.....	10.3
Newburgh.....	Mar. 1916	60	91.4	89.5	1.9	.....
Newbury.....	Mar. 1921	25	56.0	83.0	.....	27.0
Newcastle.....	Mar. 1916	60	290.3	375.2	.....	84.9
New Hamburg.....	Mar. 1911	25	783.0	872.4	.....	89.4
Newmarket.....	Dec. 1920	25	2,157.3	2,306.0	.....	148.7
New Toronto.....	Feb. 1914	25	10,290.6	10,252.2	38.4	.....
Niagara Falls.....	Dec. 1915	25	9,931.5	11,070.5	.....	1,139.0
Niagara.....	Aug. 1919	25	1,029.0	1,050.8	.....	21.8
North York Twp.—V.A.	Nov. 1923	25	16,932.7	23,417.3	.....	6,484.6
Norwich.....	May 1912	25	478.8	545.7	.....	66.9
Norwood.....	Feb. 1921	60	263.6	260.8	.....	7.2
Oakville.....	Jan. 1930	25 & 66 $\frac{2}{3}$	2,350.7	3,053.7	.....	703.0
Oil Springs.....	Feb. 1918	25	154.0	170.5	.....	16.5
Omeme.....	Jan. 1918	60	231.0	231.0	.....	.....
Orangeville.....	July 1916	60	1,021.9	1,142.1	.....	120.2
Orillia.....	Sept. 1947*	60	1,066.0	1,682.0	.....	616.0
Orono.....	Mar. 1916	60	137.6	153.6	.....	16.0
Oshawa.....	Mar. 1916	60	18,672.6	21,843.5	.....	3,170.9
Ottawa.....	Jan. 1914	60	31,911.0	34,810.0	.....	2,899.0
Otterville.....	Feb. 1916	25	157.6	185.7	.....	28.1
Owen Sound.....	Dec. 1915	60	7,348.5	7,574.5	.....	226.0
Paisley.....	Sept. 1923	60	236.2	247.7	.....	11.5
Palmerston.....	July 1916	25	619.3	658.2	.....	38.9
Paris.....	Feb. 1914	25	2,011.3	2,208.8	.....	197.5
Parkhill.....	May 1920	25	342.8	410.2	.....	67.4
Parry Sound.....	Aug. 1946	60	518.2	621.9	.....	103.7
Penetanguishene.....	July 1911	60	1,241.6	1,318.0	.....	76.4
Perth.....	Feb. 1919	60	2,172.2	2,125.7	46.5	.....
Peterborough.....	Mar. 1913	60	18,865.0	20,180.0	.....	1,315.0
Petrolia.....	May 1916	25	889.7	982.6	.....	92.9
Pictou.....	April 1919	60	1,757.9	1,893.4	.....	135.5
Plattsville.....	Dec. 1914	25	259.7	249.7	10.0	.....
Point Edward.....	Nov. 1916	25	1,796.0	2,142.0	.....	346.0
Port Carling.....	April 1929	60	480.1	460.1	20.0	.....
Port Colborne.....	Mar. 1920	25	1,898.9	2,207.5	.....	308.6
Port Credit.....	Aug. 1912	25	1,207.0	1,516.0	.....	309.0
Port Dalhousie.....	Nov. 1912	25	1,139.7	1,119.8	19.9	.....
Port Dover.....	Dec. 1921	25	726.1	783.1	.....	57.0
Port Elgin.....	April 1930	60	847.0	888.2	.....	41.2

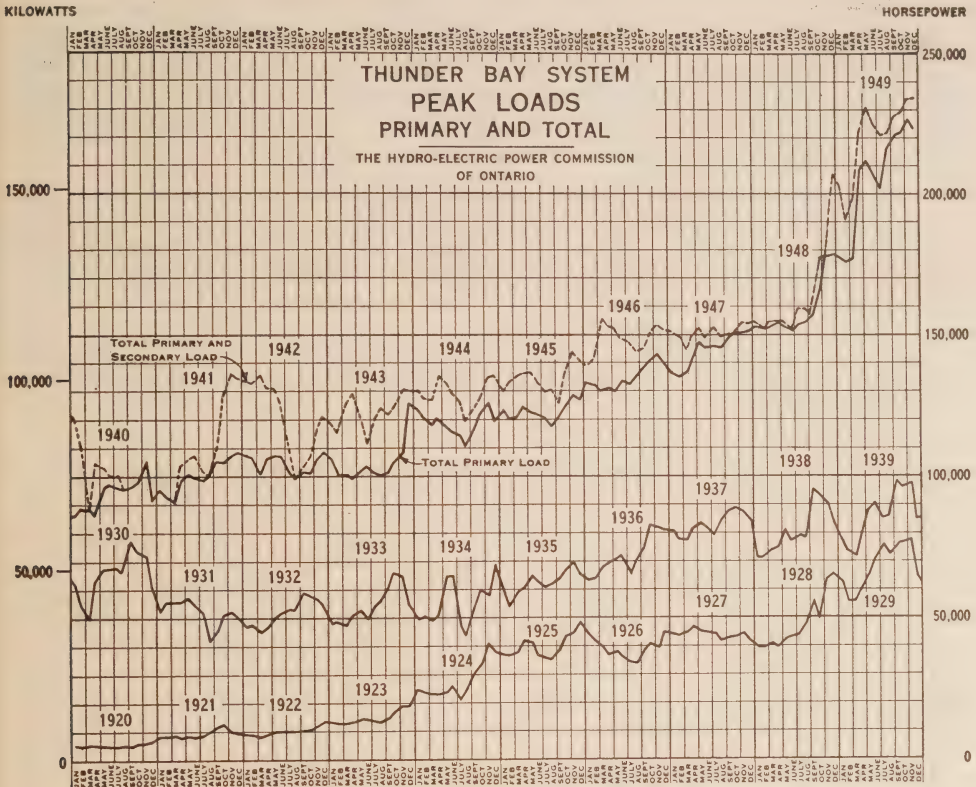
*First date of regular supply. Power has been sold to and purchased from Orillia for the past 30 years or more but only on an intermittent basis.

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Continued

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Port Hope.....	Mar. 1916	60	3,400.5	3,606.6	.....	206.1
Port McNicoll.....	Jan. 1915	60	140.1	163.3	.....	23.2
Port Perry.....	Sept. 1922	60	462.7	454.0	8.7	.....
Port Rowan.....	Nov. 1926	25	123.2	168.9	.....	45.7
Port Stanley.....	April 1912	25	1,321.0	1,190.7	130.3	.....
Prescott.....	Dec. 1913	60	1,339.6	1,442.8	.....	103.2
Preston.....	Jan. 1911	25	4,192.6	4,604.8	.....	412.2
Priceville.....	Mar. 1921	60	18.6	18.7	.....	0.1
Princeton.....	Jan. 1915	25	185.2	197.2	.....	12.0
Queenston.....	Mar. 1921	25	162.4	170.1	.....	7.7
Renfrew.....	Dec. 1944	60	1,072.5	1,456.0	.....	383.5
Richmond.....	Aug. 1928	60	116.3	133.5	.....	17.2
Richmond Hill.....	June 1925	25	755.3	827.0	.....	71.7
Ridgetown.....	Dec. 1915	25	566.0	674.9	.....	108.9
Ripley.....	Jan. 1921	60	136.2	153.7	.....	17.5
Riverside.....	Nov. 1922	25	1,750.3	2,040.5	.....	290.2
Rockwood.....	Sept. 1913	25	205.1	220.9	.....	15.8
Rodney.....	Feb. 1917	25	172.9	225.0	.....	52.1
Rosseau.....	July 1931	60	73.8	88.1	.....	14.3
Russell.....	Feb. 1926	60	134.6	134.4	0.2	.....
St. Catharines.....	April 1914	60, 25 & 66 2/3	23,600.1	25,564.0	.....	1,963.9
St. Clair Beach.....	Nov. 1922	25	115.2	134.5	.....	19.3
St. George.....	Sept. 1915	25	204.5	226.8	.....	22.3
St. Jacobs.....	Sept. 1917	25	364.5	404.4	.....	39.9
St. Marys.....	May 1911	25	1,962.5	1,998.0	.....	35.5
St. Thomas.....	April 1911	25	7,697.0	8,268.0	.....	571.0
Sarnia.....	Dec. 1916	25	10,359.8	12,018.0	.....	1,658.2
Scarborough Twp.—V.A.	Aug. 1918	25 & 60	8,500.5	12,029.1	.....	3,528.6
Seaforth.....	Nov. 1911	25	1,160.5	1,209.6	.....	49.1
Shelburne.....	July 1916	60	376.0	440.1	.....	64.1
Simcoe.....	April 1915	25	2,778.8	2,980.0	.....	201.2
Smiths Falls.....	Sept. 1918	60	3,749.0	4,004.4	.....	255.4
Smithville.....	Jan. 1930	25	506.9	440.6	66.3	.....
Southampton.....	April 1930	60	845.1	867.9	.....	22.8
Springfield.....	Aug. 1917	25	101.4	114.2	.....	12.8
Stamford Twp.—V.A...	Nov. 1916	25	3,829.0	4,713.6	.....	884.6
Stayner.....	Oct. 1913	60	394.0	450.7	.....	56.7
Stirling.....	Mar. 1916	60	439.1	471.1	.....	32.0
Stoney Creek.....	Jan. 1930	25	504.3	665.2	.....	160.9
Stouffville.....	Sept. 1923	25	543.0	594.9	.....	51.9
Stratford.....	Jan. 1911	25	7,609.9	8,050.5	.....	440.6
Strathroy.....	Dec. 1914	25	1,738.1	1,692.8	45.3	.....
Streetsville.....	Dec. 1934	25	653.3	671.0	.....	17.7
Sunderland.....	Nov. 1914	60	225.7	222.4	3.3	.....
Sutton.....	Aug. 1923	25	760.1	794.1	.....	34.0
Swansea.....	Oct. 1937	25	3,236.5	3,349.1	.....	112.6
Tara.....	Feb. 1918	60	173.7	198.3	.....	24.6
Tavistock.....	Nov. 1916	25	676.6	702.6	.....	26.0
Tecumseh.....	Nov. 1922	25	680.7	727.5	.....	46.8
Teeswater.....	Dec. 1920	60	241.3	284.6	.....	43.3

SOUTHERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES 1948-1949—Concluded

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Thamesford.....	Feb. 1914	25	300.5	310.7	.....	10.2
Thamesville.....	Oct. 1915	25	260.3	356.7	.....	96.4
Thedford.....	May 1922	25	207.5	200.0	7.5	.....
Thornbury.....	Sept. 1944	60	169.1	198.8	.....	29.7
Thorndale.....	Mar. 1914	25	149.0	155.0	.....	6.0
Thornton.....	Nov. 1918	60	55.0	64.6	.....	9.6
Thorold.....	Jan. 1921	25	3,110.7	3,410.8	.....	300.1
Tilbury.....	April 1915	25	997.0	1,174.0	.....	177.0
Tillsonburg.....	Aug. 1911	25	1,927.4	2,102.3	.....	174.9
Toronto.....	June 1911	25 & 60	326,035.9	345,520.0	.....	19,484.1
Toronto Twp.—V.A....	Aug. 1913	25	6,043.0	6,896.2	.....	853.2
Tottenham.....	Oct. 1918	60	104.6	141.1	.....	36.5
Trafalgar Twp.—V.A...	Dec. 1923	25 & 66 $\frac{2}{3}$	931.3	1,135.8	.....	204.6
Trenton.....	Mar. 1916	60	5,992.7	6,378.7	.....	386.0
Tweed.....	Mar. 1916	60	505.0	529.2	.....	24.2
Uxbridge.....	Sept. 1922	60	527.6	553.9	.....	26.3
Victoria Harbour.....	July 1914	60	142.3	179.7	.....	36.8
Walkerton.....	April 1930	60	1,247.3	1,301.0	.....	53.7
Wallaceburg.....	Feb. 1915	25	6,115.4	6,506.6	.....	391.2
Wardsville.....	June 1921	25	73.0	104.4	.....	31.4
Warkworth.....	Oct. 1923	60	96.1	108.2	.....	12.1
Waterdown.....	Nov. 1911	25	356.6	473.7	.....	117.1
Waterford.....	April 1915	25	481.9	515.3	.....	33.4
Waterloo.....	Dec. 1910	25	6,262.0	6,849.0	.....	587.0
Watford.....	Sept. 1917	25	456.4	526.6	.....	70.2
Waubashene.....	Dec. 1914	60	236.2	288.6	.....	52.4
Welland.....	Sept. 1917	25	9,634.3	10,620.7	.....	986.4
Wellesley.....	Nov. 1916	25	183.2	200.4	.....	17.2
Wellington.....	April 1919	60	516.7	487.2	30.5	.....
West Lorne.....	Jan. 1917	25	551.5	591.4	.....	39.9
Weston.....	Aug. 1911	25	4,714.6	5,422.5	.....	707.9
Westport.....	Nov. 1931	60	155.6	176.0	.....	20.4
Wheatley.....	Feb. 1924	25	330.1	373.8	.....	43.7
Whitby.....	Mar. 1916	60	1,747.4	1,968.0	.....	220.6
Warton.....	April 1930	60	584.4	620.0	.....	35.6
Williamsburg.....	April 1915	60	110.2	119.2	.....	9.0
Winchester.....	Jan. 1914	60	557.1	663.0	.....	105.9
Windermere.....	June 1930	60	131.9	140.6	.....	8.7
Windsor.....	Oct. 1914	25	46,298.6	51,722.3	.....	5,423.7
Wingham.....	Dec. 1920	60	1,113.2	1,180.2	.....	67.0
Woodbridge.....	Dec. 1914	25	994.8	1,192.8	.....	198.0
Woodstock.....	Jan. 1911	25	8,506.6	8,763.6	.....	257.0
Woodville.....	Nov. 1914	60	139.6	72.3	67.3	.....
Wyoming.....	Nov. 1916	25	172.4	154.8	17.6	.....
York Township.....	Jan. 1913	25	25,646.2	29,355.2	.....	3,709.0
Zurich.....	Sept. 1917	25	173.6	190.6	.....	17.0



THUNDER BAY SYSTEM

Load Trends

The maximum peak load on the Thunder Bay system was 172,307 kilowatts. Compared with the corresponding peak of the previous fiscal year, it shows an increase of 30.3 per cent. The total energy generated and purchased during the year amounted to 1,115,732,870 kilowatt-hours, 23.7 per cent above that of the previous year.

The above large increases in load reflect the addition of the Kaministiquia Power Company's system to the Thunder Bay system on April 1, 1949, and the picking up of the new load of the Longlac Pulp & Paper Company in November 1948.

Operation

On December 12, 1948, a second unit of 20,000-kilowatt capacity at the Aguasabon development was placed in service and on April 1, 1949, the Commission acquired the properties of the Kaministiquia Power Company, which included the Kakabeka generating station of 27,700 kilowatts. These additions raised the maximum normal operating capacity of the generating stations serving the Thunder Bay system to 175,700 kilowatts.

Water conditions in the Thunder Bay area, on the whole, were above normal during the year. All primary demands were met and, in addition, 85,105,200 kilowatt-hours were produced for the operation of electric boilers. As a result of the new capacity added during the year, the overall output, including a small amount of purchased power, was 23.7 per cent greater than the corresponding output in the previous fiscal year.

On April 8, the Commission acquired Ontario-Minnesota Pulp & Paper Company's Moose Lake plant, containing two generators which are operated as synchronous condensers for the regulation of voltage at that point. Certain line facilities were also acquired.

Three new distributing stations were placed in service during the year and the capacities of three others were increased. Details are given in Section VI of this Report.

THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES—1948-1949

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
Atikokan Improvement District.....	Dec. 1944	60	328.4	468.0	.....	139.6
Beardmore Imp. Dist..	June 1937	60	236.7	233.2	3.5	.....
Fort William.....	Oct. 1926	60	16,714.4	*26,127.1	.....	9,412.7
Geraldton Townsite....	Feb. 1937	60	744.8	815.6	.....	70.8
Nipigon Twp.—V.A....	Jan. 1925	60	482.7	552.6	.....	69.9
Port Arthur.....	Dec. 1910	60	23,221.0	25,636.4	.....	2,415.4
Red Rock Improvement District.....	Feb. 1948	60	325.2	328.0	.....	2.8
Schreiber Twp.....	Nov. 1948	60	177.8	337.5	.....	159.7
Terrace Bay Improvement District.....	Jan. 1948	60	621.2	710.6	.....	89.4

*NOTE:—Fort William acquired the customers of the Kaministiquia Power Company on Nov. 1, 1949.

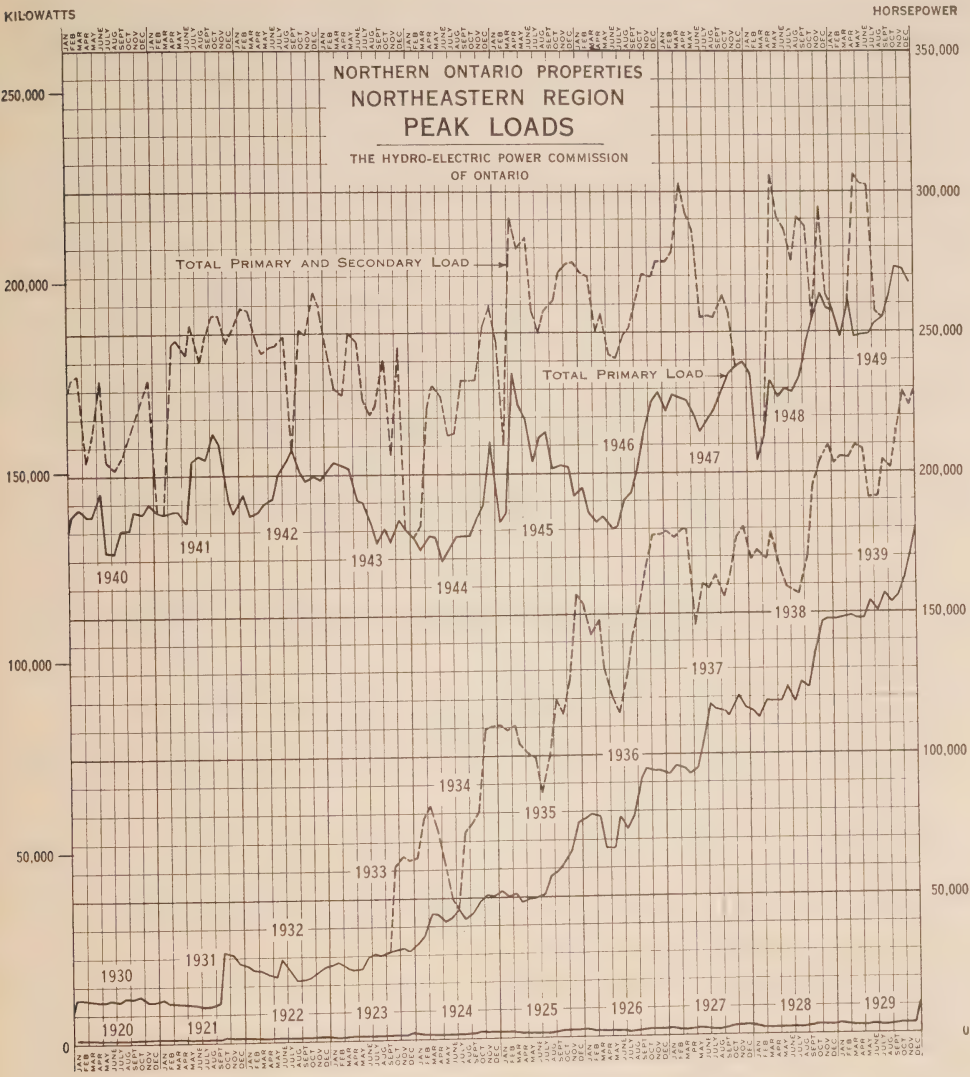
NORTHERN ONTARIO PROPERTIES

Load Trends

The maximum peak load of the Northern Ontario Properties comprising the districts of Abitibi, Timiskaming, Sudbury, Nipissing, Patricia and Manitoulin rose from 244,059 kilowatts in 1948 to 257,560 kilowatts in 1949, an increase of 5.5 per cent. The total energy generated and purchased during 1949 was 1,536,926,555 kilowatt-hours, exceeding that of the previous year by 6.7 per cent.

Operation

The two units at the Upper Notch generating station which had been out of service for conversion to 60 cycles, were returned to service, one on

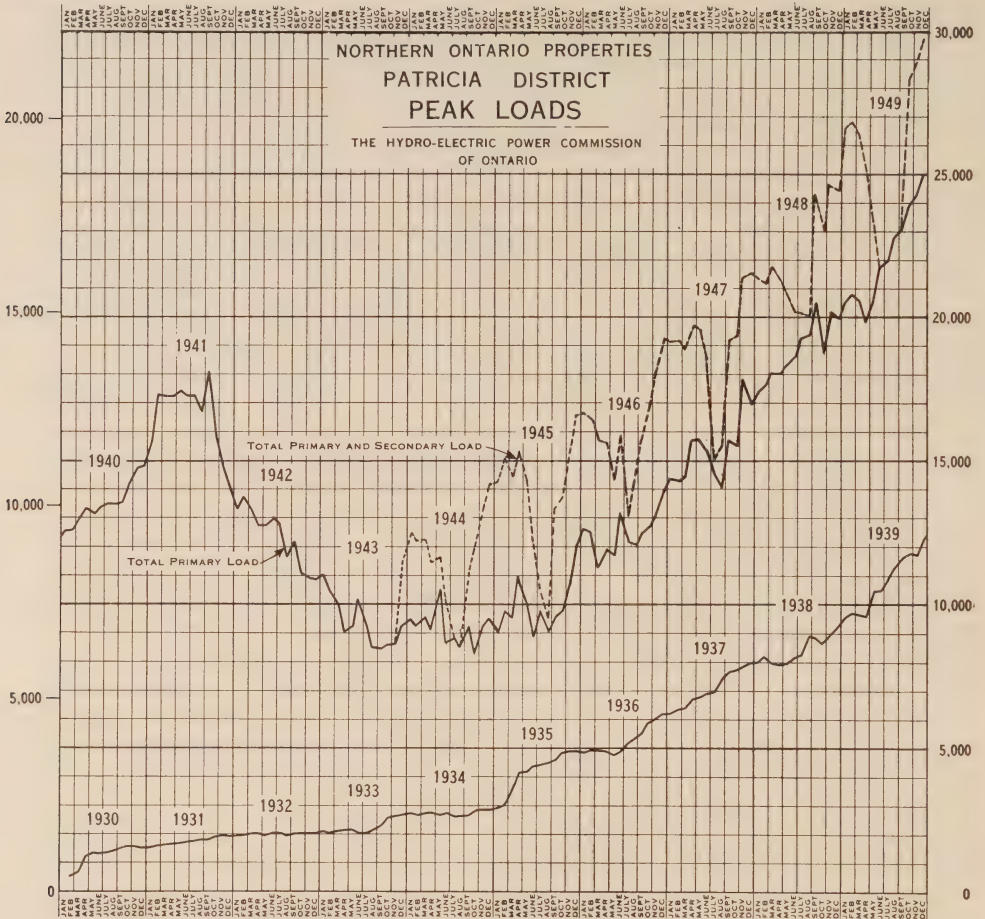


October 13, and the second on November 17, 1949. At the end of October 1949, the maximum normal operating capacity of the 19 generating stations serving the Northern Ontario Properties was 271,400 kilowatts.

Water supply to the plants serving the Northern Ontario Properties was very low at November 1, 1948, and it became necessary to place all customers in the Northeastern region on a weekly quota of kilowatt-hours effective November 8, 1948. Shortly after the institution of quotas, heavy rain occurred and this, combined with a relatively mild and open winter, allowed restrictions to be gradually reduced and led to the suspension of all restrictions on February 21, 1949. The spring run-off was of moderate proportions but sufficient to fill most of the storage

KILOWATTS

HORSEPOWER



reservoirs. Precipitation during the summer, however, was light and led to a rapid depletion of storage waters, resulting in below normal water conditions at the end of the year which gave rise to grave doubts of the Commission's ability to meet the 1949-50 winter load. In view of this situation, negotiations were started for the purchase of surplus power from the Rapide VII plant of the Quebec Hydro-Electric Commission and also to obtain assistance from the Abitibi Power & Paper Company when available.

On October 16, 1949, Little Current distributing station, of 600-kva capacity, together with a connecting line from the International Nickel Company's Lawson Quarry substation, was placed in service. Thus, the Manitoulin district was interconnected with the Sudbury district which in turn is connected with the districts of Abitibi, Timiskaming and Nipissing, forming a complete integration of all districts comprising the Northeastern region.

This region was operated in close co-operation with the Abitibi Power & Paper Company to make the most efficient use of the water available

throughout the area. During the period of high flow in the spring when not all of the water could be stored, surplus energy was supplied to the Abitibi Power & Paper Company for the operation of electric boilers to the extent of some 78,000,000 kilowatt-hours.* At other times, in the interest of making the most efficient use of river flows and to meet current operating conditions, interchange between the Northeastern region and the Abitibi Company's system took place, with the net result that the Commission received 24,000,000 kilowatt-hours from the Abitibi Power & Paper Company during the year.

Due to the small reserve capacity available to the 60-cycle network of the Northeastern region, there were many occasions of temporary power shortages resulting from failure of either generating units, frequency-changers or tie-lines between districts. On a number of these occasions assistance was obtained from the Huronian Company at Coniston.

*In most cases where surplus energy is used to operate electric boilers it is sold on an "at-will" basis and is used for the production of process steam.

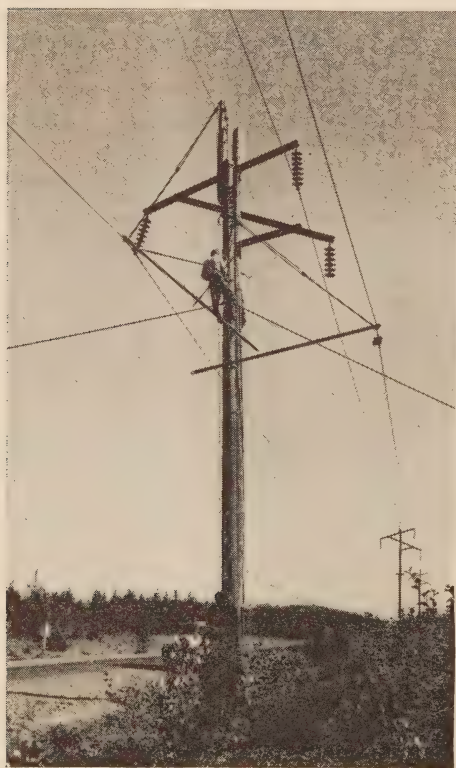
NORTHERN ONTARIO PROPERTIES—LOADS OF MUNICIPALITIES—1948-1949

Municipality	Date of first delivery	Frequency cycles	Peak load in kilowatts		Change in load	
			July to Dec., 1948	July to Dec., 1949	Decrease kw	Increase kw
ABITIBI DISTRICT						
Elk Lake.....	Jan. 1945	25	97.1	88.0	9.1	.....
Hislop Townsite.....	Oct. 1936	25	47.2	52.1	.....	4.9
Kearns Townsite.....	Dec. 1938	25	163.4	111.7	51.7	.....
King Kirkland Townsite	Dec. 1936	25	45.6	47.2	.....	1.6
Matachewan Townsite..	April 1935	25	214.9	227.5	.....	12.6
Matheson.....	Dec. 1935	25	151.7	195.6	.....	43.9
TIMISKAMING DISTRICT						
Englehart.....	Jan. 1945	60	428.5	405.3	23.2	.....
Haileybury.....	Jan. 1945	60	822.8	847.8	.....	25.0
New Liskeard.....	Jan. 1945	60	1,437.5	1,473.4	.....	35.9
Schumacher.....	Jan. 1945	25	910.9	823.2	87.7	.....
South Porcupine.....	Jan. 1945	25	1,095.0	1,205.5	.....	110.5
Teck Township.....	Jan. 1945	60	4,167.5	4,314.0	.....	146.5
Timmins.....	Jan. 1945	25	7,093.0	7,298.5	.....	205.5
SUDBURY DISTRICT						
Capreol.....	May 1935	60	524.6	669.9	.....	145.3
Sudbury.....	Feb. 1930	60	11,101.2	13,566.8	.....	2,465.6
NIPISSING DISTRICT						
North Bay.....	Mar. 1916	60	5,744.6	6,379.7	.....	635.1
Powassan.....	Mar. 1916	60	173.8	197.1	.....	23.3
PATRICIA DISTRICT						
Cottage Cove.....	Nov. 1940	60	148.2	197.0	.....	48.8
Hudson.....	Oct. 1939	60	110.4	131.0	.....	20.6
Red Lake Townsite....	June 1938	60	463.2	527.2	.....	64.0
Sioux Lookout.....	Sept. 1939	60	597.0	692.3	.....	95.3

To provide for new and increasing loads and, also add to the greater flexibility in the operation of the Northeastern region as a whole, several new line sections and transformer and distributing stations were placed in service during the year. Details of these additions are given in Section VI of this Report.

In the Manitoulin district, which operated independently of the Northeastern region prior to October 16, 1949, adequate water was available during the freshet period. At other times it was necessary to make extensive use of the diesel units at the Kagawong plant, and as there was little or no reserve generating capacity, any loss of capacity usually necessitated load reductions especially over peak load periods.

The Patricia district, which eventually will be interconnected with the Thunder Bay system to form a complete integration of the Northwestern region, operated as an independent area throughout the year. Resources in this district were adequate to meet all primary demands and, in addition, the district supplied 20,045,000 kilowatt-hours for the operation of electric boilers of four mining companies.



LIVE-LINE OPERATIONS ON 115,000-VOLT, WOOD-POLE TRANSMISSION

Upwards of 300 poles have been changed with the circuit alive. For this work men are specially selected and trained and experience has demonstrated that the method is safe and practical



**PATROL OF HIGH-VOLTAGE TRANSMISSION LINES BY
HELICOPTER**

This method is proving both practicable and economical

MAINTENANCE OF THE SYSTEMS

Generation

Aside from the routine maintenance and inspection of all hydraulic equipment, five large turbines, four in the Niagara district and one at the Chats Falls plant, were completely overhauled. During the summer, a new runner was installed in one of the turbines at the Ontario Power plant. Essential overhauling and reconditioning of the smaller turbines, principally those in the plants serving the Timiskaming district, were carried out.

During the year, four large and sixteen small generators with two large synchronous condensers were given major overhauls. The majority of the generators in all plants received routine inspection and a number of generators damaged by lightning required minor repairs.

Several 115,000-volt circuit-breakers were modernized in order to increase their rupturing capacity.

Transmission

Approximately 11,000 defective poles in the older transmission and distribution lines were replaced. Numerous low-tension line relocations were made to accommodate highway and road widening throughout the Province.

Suspension insulators on 285 circuit-miles of 115,000-volt lines, pin-type insulators on 15 circuit-miles of 115,000-volt lines, and pin-type insulators on approximately 50 miles of low-voltage lines were tested and defective ones replaced.

Some 300 double-circuit towers on which galvanizing had deteriorated were painted.

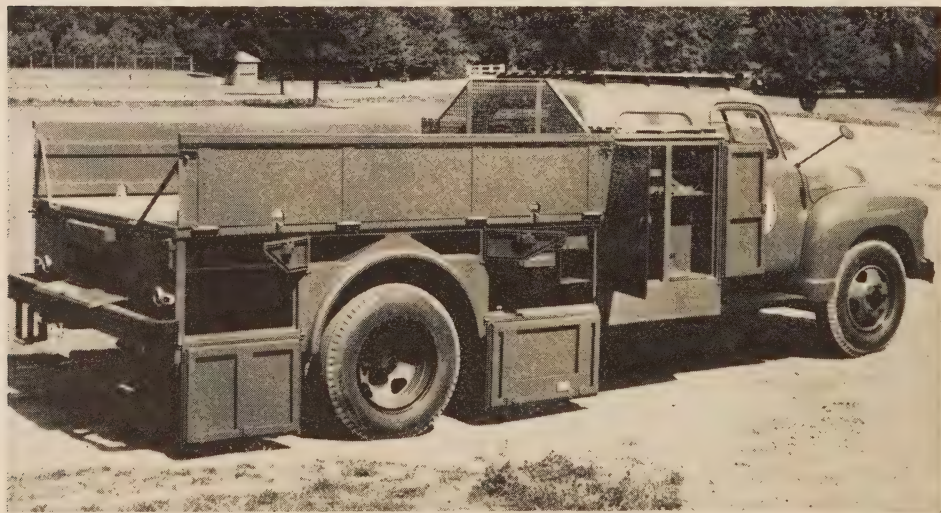
A Bell 47D helicopter was purchased by the Commission for use in patrol of high-voltage transmission lines. This aircraft is now doing regular patrol of the 230,000-volt network and certain isolated 115,000-volt transmission lines, and is proving itself a practical and economical device.

It is also expected when emergencies arise on these lines that restoration of service will be expedited by use of the helicopter for locating the trouble and transporting men and equipment to aid in the repairs.

Transformation

There were few major transformer failures during the year. Many transformers ranging in capacity from 50 to 8,000 kilovolt-amperes were overhauled and a few were completely rebuilt. Numerous transformer bushings of all types were also rebuilt.

To provide for increased loads and more flexible operating conditions throughout the various systems, a number of new stations were placed in service and the capacity of many existing stations was increased, involving in all the addition of approximately 550,000 kva in new transformer capacity.



FORESTRY LINE-CLEARING TRUCK

First of its type manufactured in Canada; of cast-steel construction with six-man cab and of three-ton capacity. Carries full complement of tools

In the Southern Ontario system, a number of 25-cycle transformers were replaced by transformers of dual frequency and the higher rating of the 60-cycle winding of the transformers, which will become available as frequency standardization progresses, has been used in estimating the transformer capacity added during the year.

FORESTRY WORK

Line Clearing

The following tabulation shows the work performed on transmission, rural and municipal line-clearing operations during the fiscal year 1948-49, exclusive of the work done by linemen:

Summary of Line Clearing Operations

	Brush cutting pole spans	Trees treated	Miles of line cleared	Tree density per mile
New line construction.....	142	13,682	239	57.2
Municipal Hydro systems (21).....		6,980	77	90.6
Transmission and telephone lines.....	951	57,561	2,523	22.8
Rural operating areas.....	1,129	58,879	1,123	52.4
Rural operating areas—Contractors.....	1,369	69,324	1,205	57.5
Total.....	3,591	206,426	5,167	39.9

Forest Management

A total of 58,000 trees were planted covering some 48 acres of land in the Niagara region. Of these trees 43,000 were planted in the spring and 15,000 were planted in September, using a tree-planting machine built by the mechanical staff of the Niagara region, and modelled on the Den Nyl Planter developed at Purdue University.

In preparation for the 1950 reforestation program, an order for 60,000 seedling trees was placed with the Ontario Department of Lands and Forests.

In the Niagara region work was started on these areas by marking for removal the diseased and poorly formed trees on 28 acres of woodlot. Ten acres of woodlot were cleared of small weed trees and brush in order to encourage the growth of seedlings and saplings of the more desirable species.

Approximately 20 acres of open wooded land in the DeCew Falls area were cleared of brush in preparation for treatment of the area by reforestation.

Field work was carried on in the Northeastern region, where a total of 3,800 acres of land was surveyed at Cox's Chute, Braie Lake, Nipissing, Elliott Chute, Bingham Chute and Crystal Falls.

SECTION II

REPORTS FROM THE REGIONS RELATING TO MUNICIPAL ACTIVITIES

THE COMMISSION'S nine regional organizations completed their first full year of operation at the end of 1949. They were established throughout the Province to administer more effectively the affairs of the Commission, and to bring the public into closer touch with its personnel. Details of the establishment of the regions and their boundaries are given in the Annual Report for 1948. During the year the responsibilities of the regional staffs were broadened to effect a greater decentralization of the Commission's activities.

The municipal Hydro utilities are responsible for the retail distribution of the power and energy supplied to them on a wholesale basis by The Hydro-Electric Power Commission of Ontario. The Commission has always co-operated closely with the municipalities, giving engineering and administrative advice concerning their special problems and The Power Commission Act gives to the central Commission control over the rates charged to the ultimate consumers. Establishment of the regional offices enables these services to be rendered more effectively.

In the following pages brief particulars of some of the more important municipal activities of each region are given:

WESTERN REGION

Aylmer—A control system for approximately 120 flat-rate water-heaters was installed during the year.

Chatham—A new two-storey garage building in the rear of the Queen street substation was constructed to house all the heavy line trucks.

Delaware—The distribution voltage in the village was changed from 4 to 8 kv and new feeders were constructed in order to tie into the new distributing station. The village distribution system was changed from single-phase to three-phase at this time.

Leamington—A by-law setting up the Public Utilities Commission to manage water and gas utilities as well as the Hydro was approved by the

electors at the 1949 December election and the first Commission will be elected in 1950.

Wallaceburg—The second municipal station and the 26.4-kv tie line between the two stations were completed. The tie line includes a submarine cable under the Sydenham river.

WEST CENTRAL REGION

Brantford—The primary distribution system to the area of West Brantford, which carries an industrial load of approximately 2,500 kw and a domestic and commercial load of some 1,000 kw, was completely rebuilt. Municipal station No. 6 was built and put in service in this area with a dual-frequency capacity of 1,500/2,700 kva. Municipal station No. 8, a consumer-owned station, was nearly completed. Some 4,000 feet of 26.4-kv transmission line was constructed to feed these stations.

A 3,000/5,000-kva dual-frequency substation was completed in Eagle Place for a large industrial consumer.

Brantford Township—A new storeroom, meter-room and garage facilities were acquired at a cost of \$2,000.

Guelph—A new outdoor-type substation is under construction in the central section of the city, to consist of one 1,500-kva and one 750-kva transformer.

Hamilton—Construction of a new office and service building, costing some \$1,145,000, was started late in December 1949, with completion scheduled prior to March 1951.

On May 1, 1949, certain sections of Saltfleet and Barton townships were annexed by the city of Hamilton. At this time the Hamilton Hydro-Electric System took over 2,388 consumers and the distribution system serving them from the Saltfleet rural operating area.

Hespeler—No. 1 substation was enlarged to a 3,000-kva station. In rebuilding, accommodation was made for a modern garage and storeroom at a cost of \$23,000.

Kitchener—A new bungalow-type No. 7 substation at the intersection of East and Stirling avenues was put into service in 1949. This 3,000-kva station, including land, building and equipment such as water heater control, cost approximately \$63,000.

Waterloo—The offices of the Public Utilities Commission were moved from the City Hall, where they had been located for fifty years, to a new situation at 88 King street south. A building was taken over and practically rebuilt at a total cost of \$40,000, housing offices and a large warehouse with a two-truck garage.

NIAGARA REGION

Merritton—Construction was commenced of a modern office building which is expected to be completed and occupied early in 1950.

Thorold—In conjunction with the installation of a modern street-lighting system, all primary circuits were removed from the main street and a tie feeder constructed between the two municipally-owned stations.

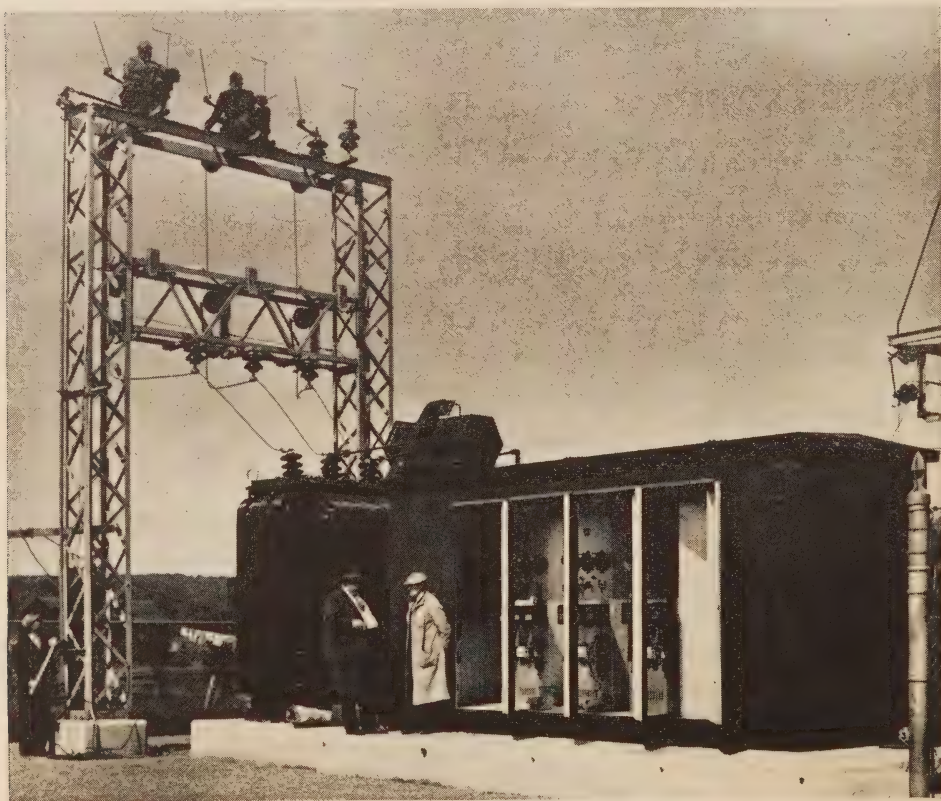
Welland—A new substation of 3,000-kva capacity was placed in service.

TORONTO REGION

East York Township—Installation was completed of a new 3,600-kva, 60-cycle substation to supply a number of new industries in the O'Connor drive industrial area. Frequency standardization of a number of domestic consumers was carried out in the northeastern section of the municipality. Approval was given for the issue of debentures in the amount of \$600,000 for the installation of a new substation and the rewinding of six existing substation transformers to provide additional capacity at 60 cycles.

Etobicoke Township—A 3,000/5,400-kva, municipally-owned substation was placed in service in the Kingsway area. Facilities were installed to supply one large manufacturing plant and a number of smaller industrial consumers.

Milton—A new 2,000/3,600-kva, unit-type substation was placed in service in May. The 2,300-volt supply to a number of power consumers was changed to 4,000 volts.



NEW TRANSFORMER SUBSTATION AT MILTON

The 2,000/3,600-kva dual-frequency transformer has three feeders. Photograph taken just prior to completion. Officially opened May 27, 1949

Mimico—A new office building owned by the Hydro system and occupied jointly by the Public Utilities and the municipal offices was completed. The official opening took place on August 3, 1949. A second municipally-owned substation in the industrial section of the municipality was placed in service on August 1, 1949.

North York Township—Three new municipally-owned substations were installed to provide for the rapidly growing load in the Township and very extensive additions were made to the distribution system in new housing areas. The office building was substantially enlarged by the addition of a second storey to house the rapidly increasing office staff.

Oakville—On January 1, 1949, Oakville became a Hydro municipality obtaining power on a cost basis, replacing the previous contract for power supplied by the Commission at a fixed rate. Extensive changes and re-building of the distribution system were carried out in the municipality and a customer-owned substation was installed by a large industrial consumer to take power at subtransmission voltage.

Scarborough Township—The boundaries of the Voted Area were extended to take in the "Geco" industrial area and 150 lighting consumers from the Markham rural operating area. Three new 26.4-kv, 60-cycle, customer-owned substations were installed by industrial consumers. Frequency standardization for the Township commenced in October and will be completed early in 1950.

Streetsville—At the request of the Streetsville Public Utilities Commission, arrangements were made for the Brampton rural area staff to take over the operation and maintenance of the town distribution system.

Trafalgar Township—One new substation was installed and an existing substation rebuilt and enlarged to provide for increased growth in the municipality.

Weston—The wood-pole line was removed for the full length of the main street and distribution circuits and street-lighting equipment erected on steel trolley-poles. A new 450-kva, 26-kv, municipally-owned substation was erected.

York Township—Radio communication for use in relay protection for a number of substations and to provide intercommunication between office and trucks was put into operation. Approval was given for the construction of a garage and stores building to cost \$175,000.

GEORGIAN BAY REGION

Beaverton—A new 44-kv, 1,000-kva substation was placed in service, replacing the former 22-kv, 600-kva substation.

Burks Falls—The municipality voted to take power from the Commission on a cost-contract basis and an agreement was signed on October 31, 1949. The existing distribution system was purchased from Knight Bros. Lumber Company, and will be rebuilt for 12/6.9-kv operation.

Erin—The Corporation voted to obtain a supply of power at cost from the Commission and to purchase the local distribution system.

Kincardine—The distributing station capacity was increased from 750 to 2,000-kva and two additional feeder circuits were provided.

Markdale—A new 600-kva substation was erected to supply the town.

Mildmay—The distribution system was changed from 4,000/2,300-volt to 8,000/4,600-volt operation and is supplied from the new Walkerton rural station.

Neustadt—The distribution system was changed from 4,000/2,300-volt to 8,000/4,600-volt operation and supplied from the new Hanover rural station.

Owen Sound—A new 3,000-kva municipal station, to serve the western section of the city, is nearing completion.

Parry Sound—A survey was made of the dam at the Parry Sound plant on the Seguin river, preparatory to its being strengthened next year. Heavier primary feeders are being strung from the plant to load centres in the town.

Tara—The distributing station capacity was increased from 150 to 300 kva.

Wingham—A new 2,000-kva distributing station was placed in service providing three feeder outlets for the town's distribution system. The distribution-system voltage is being changed from 2,300-delta to 4,000/2,300-volt operation.

EAST CENTRAL REGION

Bancroft—A 44-kv line was extended to Bancroft and a new substation was completed in October in order to supply power to the village under a cost contract with the Commission. The power supplied under this contract will supplement the supply of power obtained by the municipality from its own generating plant.

Bobcaygeon—Assistance was given to the local Commission in an effort to determine the most advantageous operating conditions, involving a study of the possibility of operating the local generating plant in parallel with the Commission's power supply.

Cobourg—Additional substation capacity was installed and provision made for supplying power at 4,160 volts instead of 2,300. The local Commission is carrying out necessary changes in its distribution system to operate at the higher voltage.

Frankford—The local distribution system which had been owned and operated by The Hydro-Electric Power Commission of Ontario was purchased by the municipality on September 1, 1949.

Kingston—Arrangements were made by the local Commission for a third substation to serve the north section of the city.

Newburgh—The municipality purchased from The Hydro-Electric Power Commission of Ontario the local electrical utility and commenced operating as a cost municipality on July 1, 1949. This is the last of the municipalities in the former Central Ontario system to take such action.

Port Hope—A new substation was put in service to provide added power for local industries.

Trenton—Municipal substation No. 3, to supply the south section of the town, was completed.

Whitby—The local Commission erected a new office building with store-room and garage. Changes were made in the distribution system to serve new industries at the south end of the town.



MODERN OFFICE BUILDING FOR WHITBY PUBLIC UTILITIES

EASTERN REGION

Almonte—Extensive alterations were undertaken at the intake of the municipal generating station, including new head gates, racks and an additional by-wash intended to overcome ice conditions prevalent in former years.

Brockville—A new municipal substation of 2,000-kva initial capacity was constructed to serve increasing loads in the municipality.

Ottawa—Approval was obtained for the Ottawa Hydro-Electric Commission to purchase the assets in Ontario of the Ottawa Light, Heat and Power Company, Limited. Approval was obtained for the local Commission to expend \$100,000 for a new transformer bank and switching structure at Ottawa transformer station. Consideration was given to additional sources of power supply to meet the greatly increasing load of the municipality on account of the annexation of new areas and the development of new housing projects.

Prescott—Work was undertaken on the rehabilitation of the distribution system which makes provision for a separate power circuit for power customers in the town.

Smiths Falls—A building was acquired and renovated to provide permanent office quarters for the utility staff. Construction work on a new 3,000-kva municipal substation was undertaken.

NORTHEASTERN REGION

Cache Bay—Electors in this town voted in favor of obtaining a power supply from the Commission and also in favor of a necessary money by-law covering the distribution system.

Latchford—The municipality entered into an agreement for power supply with the Commission and authorized the Commission to construct its distribution system.

Township of Larder Lake (Larder Lake Village)—

Improvement District of McGarry (Virginiatown)—Prior to 1949 electric service in these municipalities was provided by Proprietary Mines Limited. On March 1, 1949, however, they purchased the distribution systems and entered into a contract with the Commission for power.

Matheson—The distribution system was changed in April 1949 for 12/6.9-kv operation with the installation of a new substation.

NORTHWESTERN REGION

Atikokan Improvement District—The distribution system has been considerably enlarged to take care of the expansion of the Townsite which was created by the increased development of the Steep Rock Iron Mines, Limited.

Fort William—Arrangements have been completed for the Fort William Hydro-Electric Commission to purchase from the Commission certain parts of the former Kaministiquia Power Company system lying within the boundaries of the city of Fort William, with the exception of service to the Mission mill of the Abitibi Power & Paper Company, Limited.

Port Arthur—The Port Arthur Commission completed this year the conversion of their distribution system from 2,300-volt delta operation to 4,000-volt Y operation. The capacity of their High street station has been increased from 2,250 kva to 5,000 kva during this year.

Schreiber Township—A new permanent distributing station has been erected serving this municipality, to replace a temporary station erected the previous year. The Canadian Pacific Railway Company, which has a divisional point at this place, has discontinued generating its own power and is now taking service from Schreiber township.

Terrace Bay Improvement District—A new station was erected to serve this municipality. Power was previously supplied from the facilities of the Longlac Pulp & Paper Company, Limited.

SECTION III

THE COMMISSION AND ITS CONSUMERS

Municipal Activities and Load Conditions Reviewed—Power Restrictions—Financial Progress of Utilities—Service to Industries—Electrical Inspection

AT THE CLOSE of the fiscal year, October 31, 1949, the Commission was supplying electric power to 1,017 municipalities in the Province under provisions of The Power Commission Act. Of this number, 309 urban municipalities and voted areas in townships were supplied under individual cost agreements, and each operated its own electric utility under provisions of The Public Utilities Act. A group of 38 other urban municipalities includes those which were served under agreements at a fixed price or where the Commission provided service direct to the customers therein through its own facilities. The remaining group, numbering 670, are townships or municipalities and areas treated as townships which are provided with rural electric service and dealt with in Section IV of this Report.

The expansion of business in large urban and suburban municipalities required the extension of plant and capital expenditures of sufficient amounts to necessitate raising funds by debentures. Numerous requests from municipalities for approval of projects of this nature and assent to the issue of debentures were dealt with by the Commission.

No general revision of rate schedules was made. A few municipalities made minor changes to adjust local rates for particular classes of customers or to standardize the rate structure in those municipalities which recently executed agreements for Hydro power.

Power Restrictions

Power restrictions which were necessary in the winter of 1947/48 were reimposed in September, 1948, and continued throughout the winter of 1948/49. During this season severe restrictions were necessary due to the long period of drought in the fall of 1948. On September 14, 1948 quotas for energy were established and enforced for each municipality in the southern part of the Province, while in the northern part, quotas were established on November 8, 1948. These quotas were altered from time to time through

the latter part of 1948 to meet with the changing conditions. Water flow improved sufficiently in January, 1949 to permit the removal of the quotas for southern Ontario on February 1, 1949 and for northern Ontario on February 21, 1949. Later in the month other restrictions on lighting were removed and on March 31, 1949 all restrictions were withdrawn.

General regulations restricting the use of electricity for certain purposes were again reimposed on October 1, 1949, and water flow conditions existing at the end of the fiscal year indicated that if better than normal rainfall did not occur before freeze-up, resort to quotas would be necessary.

As compared to 1948, the load supplied to cost-contract municipalities showed an increase in 81 per cent of these and a decrease in the remainder. Of the cities, 72 per cent had increased loads, towns 84 per cent, villages 80 per cent and police villages 78 per cent, while in all the voted areas there were increased loads. The total amount of power supplied to all groups was 2.6 per cent greater than in the previous year.

GROWTH IN HYDRO DOMESTIC SERVICE 1914 TO 1948
ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		\$			cents	\$ c.	kw-hrs
1913				49,200			
1914	49	730,168	14,359,100	64,866	5.08	1.06	21
1915	.....	854,748	20,935,000	85,865	4.08	0.92	22
1916	.....	992,628	29,359,900	108,364	3.42	0.82	24
1917	123	1,340,855	41,930,200	131,313	3.20	0.91	29
1918	.....	1,583,677	52,731,700	146,885	3.00	0.92	31
1919	.....	1,933,577	68,409,100	169,455	2.82	1.01	35
1920	166	2,514,658	98,211,000	193,892	2.56	1.15	45
1921	.....	3,086,051	124,619,800	219,465	2.48	1.24	50
1922	.....	3,761,172	166,182,000	245,577	2.26	1.34	59
1923	206	4,955,420	242,926,600	286,852	2.04	1.54	76
1924	.....	5,548,835	292,608,400	303,787	1.89	1.56	80
1925	.....	6,414,134	342,356,700	326,307	1.85	1.67	90
1926	242	7,353,394	404,722,959	349,882	1.81	1.79	98
1927	267	8,497,190	469,851,690	387,573	1.80	1.87	103
1928	268	9,411,812	551,010,035	408,071	1.71	1.97	115
1929	273	10,256,860	612,141,722	424,419	1.67	2.05	122
1930	273	10,752,720	671,028,310	433,260	1.61	2.09	130
1931	289	11,226,091	704,784,457	447,466	1.59	2.12	133
1932	298	11,676,222	740,900,418	452,615	1.57	2.15	136
1933	300	11,639,178	742,195,402	460,878	1.57	2.10	134
1934	300	12,078,069	797,532,709	463,913	1.51	2.17	143
1935	302	12,393,536	826,972,873	471,265	1.50	2.19	146
1936	302	12,922,466	881,972,324	482,557	1.47	2.23	152
1937	305	12,680,921	926,350,703	490,140	1.37	2.16	157
1938	312	12,880,180	1,003,489,453	507,132	1.28	2.12	165
1939	317	13,300,898	1,056,310,109	518,123	1.26	2.14	170
1940	317	13,905,290	1,115,888,837	531,514	1.25	2.18	175
1941	320	14,452,796	1,169,273,964	546,613	1.24	2.20	178
1942	323	15,022,931	1,224,195,712	559,605	1.23	2.24	182
1943	323	15,069,547	1,266,930,625	570,470	1.19	2.20	185
1944	323	15,528,445	1,348,099,019	579,890	1.15	2.23	194
1945	340	16,053,818	1,494,258,124	608,905	1.07	2.20	205
1946	339	17,526,854	1,704,125,246	628,118	1.03	2.32	226
1947	339	18,937,674	1,870,974,898	648,282	1.01	2.43	240
1948	341	20,295,932	2,032,922,876	671,914	0.99	2.51	252

Statistical Summary of Growth by Utilities

The annual growths in revenue and kilowatt-hour consumption, also the reduction in the average cost per kilowatt-hour from 1914 to 1948 for all domestic and commercial consumers, are shown in the accompanying tables and graphs. The figures include all the municipal utilities listed in Statement "D" of Section X of this Report and also those municipal utilities owned and operated by The Hydro-Electric Power Commission of Ontario.

The tables give complete information for "all municipal utilities combined" for both domestic and commercial services; the graphs show only increased use and decreased cost for domestic and commercial services but give these data for cities, towns and villages as well as for "all municipalities combined."

It should be noted that the tables indicate the amount charged to consumers on their regular accounts and these figures do not include the further benefit that a larger number of consumers obtain in the form of cash refunds from time to time.

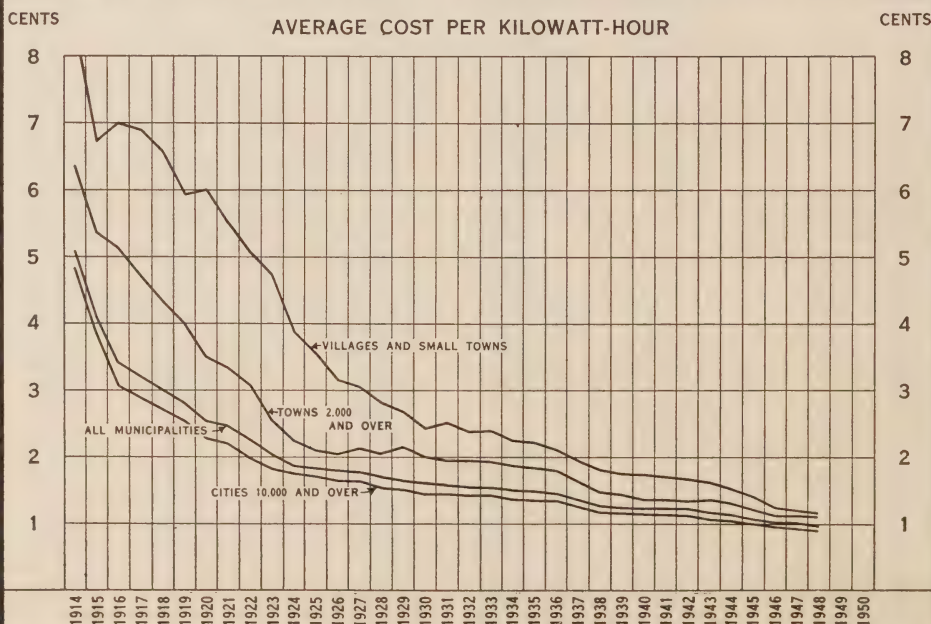
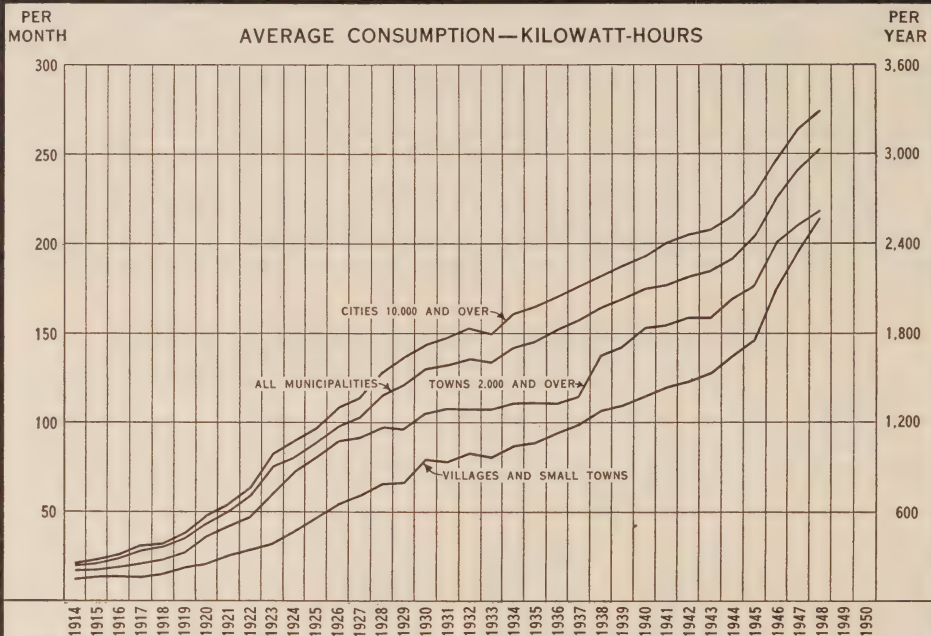
GROWTH IN HYDRO COMMERCIAL LIGHT SERVICE 1914 TO 1948—ALL URBAN MUNICIPALITIES COMBINED

Year	Number of municipalities	Annual revenue	Kilowatt-hours consumed	Number of consumers	Average cost per kw-hr	Average monthly bill	Average monthly consumption
		\$			cents	\$ c.	kw-hrs
1913				13,113			
1914	43	624,781	15,669,700	15,657	4.00	3.63	91
1915		649,585	21,444,900	19,324	3.03	2.95	97
1916		753,784	26,866,000	22,216	2.82	2.87	102
1917	123	860,475	31,983,500	27,453	2.69	2.77	103
1918		947,769	35,053,500	29,570	2.70	2.70	99
1919		1,158,406	47,087,000	33,307	2.46	3.03	123
1920	166	1,477,963	59,336,900	36,496	2.50	3.51	140
1921		1,818,211	68,863,500	39,333	2.64	3.98	151
1922		2,143,981	81,216,000	43,098	2.64	4.26	162
1923	206	2,613,257	105,482,600	46,383	2.46	4.80	196
1924		2,907,427	120,474,800	50,137	2.41	4.99	207
1925		3,836,946	151,555,200	56,018	2.54	5.98	235
1926	242	4,176,595	171,797,014	58,444	2.43	6.08	250
1927	267	4,823,781	200,606,137	64,039	2.40	6.39	267
1928	268	5,436,795	234,526,831	68,013	2.32	6.66	287
1929	273	5,893,217	272,343,330	70,106	2.16	7.11	329
1930	273	6,094,871	287,838,022	71,873	2.11	7.15	338
1931	289	6,377,520	305,121,640	75,286	2.09	7.20	344
1932	298	6,402,882	306,596,543	75,705	2.09	7.05	338
1933	300	6,149,792	292,335,489	75,443	2.10	6.79	323
1934	300	6,344,921	306,632,722	75,016	2.07	7.05	341
1935	302	6,601,461	327,413,421	74,884	2.02	7.35	364
1936	302	7,001,893	355,235,553	75,878	1.97	7.69	390
1937	305	6,676,968	393,067,119	76,620	1.70	7.26	428
1938	312	6,909,454	427,020,841	78,021	1.62	7.38	456
1939	317	7,256,262	459,635,100	78,949	1.58	7.66	485
1940	317	7,785,024	508,986,422	79,512	1.53	8.16	533
1941	320	7,991,091	540,995,581	79,824	1.48	8.34	565
1942	323	7,695,928	531,680,336	77,326	1.45	8.29	573
1943	323	6,787,241	472,129,977	76,194	1.44	7.42	516
1944	323	7,298,848	524,905,356	78,256	1.39	7.77	559
1945	340	8,429,573	634,878,480	84,413	1.33	8.32	627
1946	339	9,364,009	725,475,237	89,109	1.29	8.76	679
1947	339	10,277,574	797,642,711	91,926	1.29	9.32	723
1948	341	10,182,051	769,650,340	95,239	1.32	8.91	673

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

DOMESTIC SERVICE

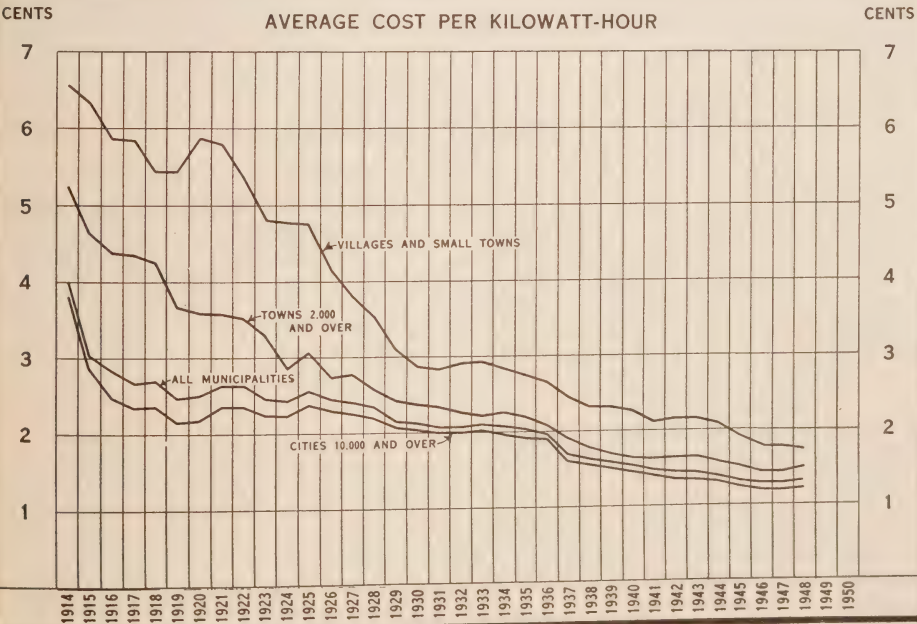
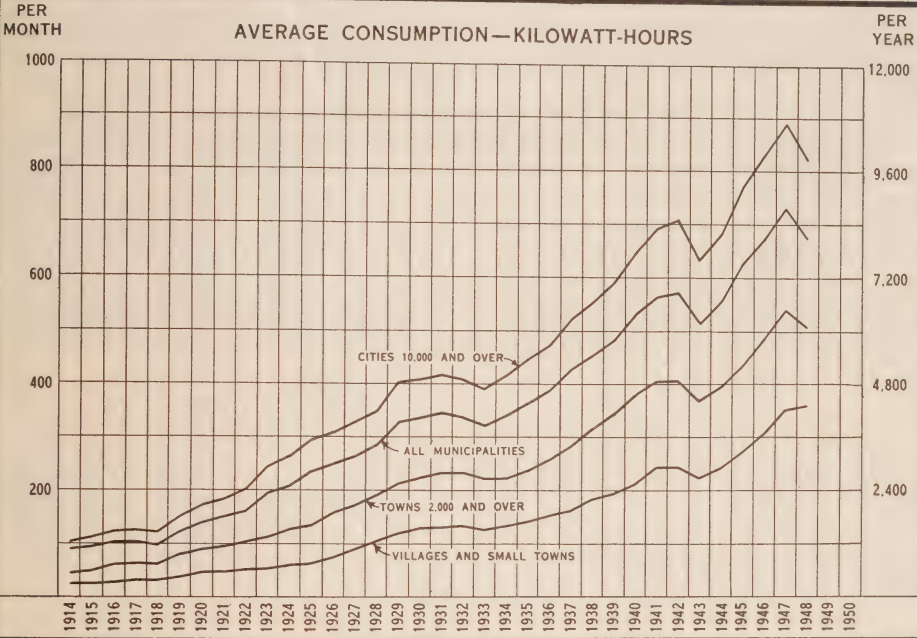
HYDRO UTILITIES OF URBAN MUNICIPALITIES



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

COMMERCIAL LIGHT SERVICE

HYDRO UTILITIES OF URBAN MUNICIPALITIES



Financial Progress of Municipal Electrical Utilities

The consolidated balance sheet, published in Section X of this Report, shows a total plant value in Hydro utilities of \$136,745,779 against which is a debenture balance debt of \$4,545,745. However, some municipalities are accumulating a sinking fund to pay for debentures at maturity and at the end of 1949 this fund amounted to \$569,498. If this sinking fund is deducted from the debenture balance debt the actual unpaid debenture debt would be \$3,976,247 or about 3 per cent of the original value of the distribution systems.

Automatic reduction in the debenture debt, due to the annual principal or sinking fund payments being provided for out of revenue, and the remarkable accumulation of assets reflect a satisfactory financial condition of the Hydro utilities generally. Statement "A" of this Report shows the relation of assets to liabilities in municipalities. In 87 per cent of these municipalities the quick assets such as cash, bonds, accounts receivable and inventories exceed in value the total liabilities, including the debenture balance, and their Hydro utilities may fairly be considered as being out of debt.

SERVICE TO INDUSTRIES

Industrial power consumers who cannot satisfactorily be provided with power by municipal utilities or rural operating areas are served as direct system customers. Some 200 consumers are in this category, including a variety of industries in Southern Ontario and mines and paper companies mostly in the northern part of the Province.

The following is a summary of these customers grouped according to the type of industry and showing the average monthly load in each group during the fiscal year.

SUMMARY OF DIRECT CUSTOMERS—1949

Type of industry	Number of customers	Average monthly load kilowatts
1—Pulp and paper mills.....	15	144,054
2—Mining:		
(a) Gold and silver.....	62	87,481
(b) Base metals.....	8	82,588
(c) Non-metals.....	4	678
3—Quarrying, cement, basic building materials.....	16	16,490
4—Steel and electro-metallurgical industries.....	7	196,645
5—Abrasives and cyanamid.....	4	149,531
6—Chemical.....	9	24,702
7—Grain elevators and milling.....	6	8,177
8—Transportation services and communications.....	8	3,778
9—Government services and institutions.....	17	9,308
10—General manufacturing.....	33	34,029
11—Non-cost municipalities.....	6	18,989
12—Miscellaneous.....	7	1,142

A comparison of the total average monthly loads for 1949 with the total average monthly loads for 1948 shows an increase from 744,487 kilowatts to 777,592 kilowatts. Decreases in the power consumption of the electro-metallurgical, abrasive and cyanamid industries were offset by the additional power used in the cement and chemical industries which continue to expand their facilities to meet the increasing demand for their products.

During 1949 the producing gold and silver mines increased their loads by 5 per cent, due in part to the increased activity in silver mining.

Some 31 new and renewal agreements were executed by the Commission with system customers in 1949, also 29 amendments were made to provide for special conditions and 18 agreements were under negotiation at the end of the year.

The following tabulation shows the number of new and renewal agreements executed by the Commission with system customers in 1949, and the number of amendments which were necessary to provide for special conditions arising after the execution of the original agreements:—

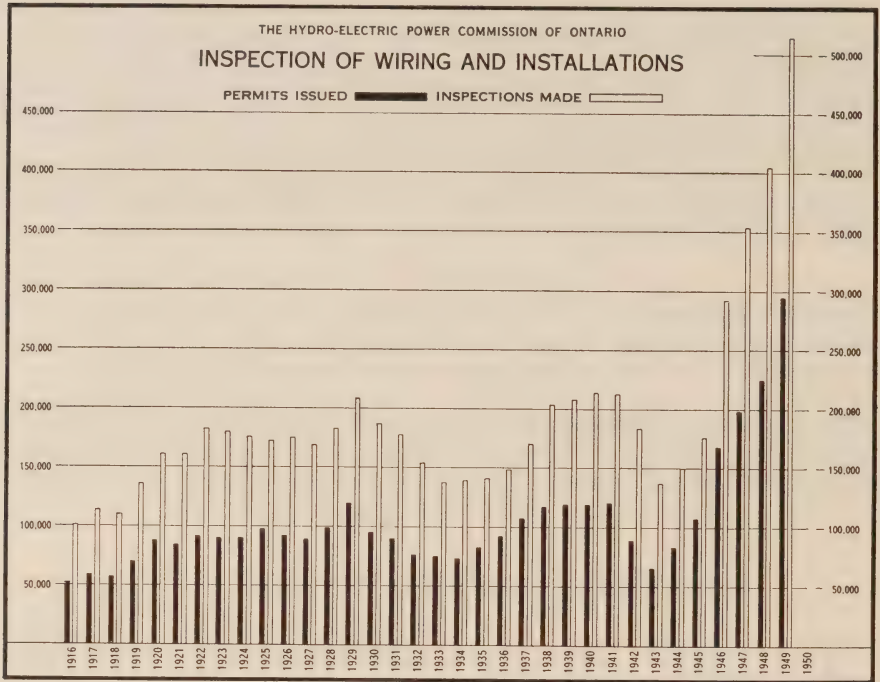
AGREEMENTS WITH SYSTEM CUSTOMERS IN 1949

	Industrial and paper companies		Mining companies	
	Number	Approximate load in kilowatts	Number	Approximate load in kilowatts
New agreements executed.....	9	19,000	3	750
Agreements renewed.....	14	114,000	5	3,000
Agreements amended.....	9	.....	20	.....
Agreements cancelled.....	1	.....	2	.....
Agreements under negotiation.....	7	55,900	6	17,600
Auxiliary power agreements under negotiation.	5	.....	..	.....

As a service to industrial power consumers, 37 plants were surveyed in 1949 and recommendations made regarding power factor correction, selection of equipment, and the increasing of distribution efficiency. The managers of the utilities supplying these industrial plants co-operate closely in this work, realizing that the increased plant efficiencies are reflected in the increased efficiency of the utility's distribution system.

ELECTRICAL INSPECTION

Reflecting the general increase in construction throughout the Province, permits increased in number by 29 per cent and the number of electrical inspections made increased by 26 per cent, as compared with the previous year. At the end of the fiscal year the number of incompleeted inspections increased by 36 per cent compared with the end of the previous period. The increase in permits issued has influenced this figure but difficulties of supply in the electrical industries further aggravated the situation. There was a 6 per cent increase in the staff of inspectors.



Six fires were directly attributed to defective electrical installations. There may have been other fires of electrical origin, but direct evidence was destroyed. Nine persons in Ontario unfortunately lost their lives by electrocution in 1949. This was a decrease of three as compared with 1948.

There was an increase of 5 per cent in the number of special inspections of electrical equipment by the Sales Control section arising from the use of electrical equipment not approved by the Canadian Standards Association.

The drafting of the Canadian Electrical Code, Part I, 5th Edition, is completed and awaits ratification by the Attorney-General's department. The new regulations will include The Hydro-Electric Power Commission of Ontario rules, regulations, and specifications governing installation of service lines, wiring on private property, and wiring in and upon buildings in rural districts.

SECTION IV

RURAL ELECTRICAL SERVICE IN ONTARIO

Province-wide Distribution to Rural Communities—Record Increase of Line Mileage and New Consumers—Immense Growth in Aggregate Load

IN KEEPING with the Commission's established rural policy of providing a province-wide distribution of electricity at a uniform rate and under similar conditions to each class of rural consumer, service was given to the largest number of consumers by means of the greatest extension of lines and distribution facilities in the history of rural distribution by the Commission.

Five-Year Plan Exceeded

The Five-year Post-war Plan, commenced in 1946, to extend Hydro rural service more rapidly to meet the accumulated demands of the post-war period, has, in its fourth year, substantially exceeded the program laid out for the entire five years. It is, however, expected that this great rate of growth will gradually slow down.

	First year 1946	Second year 1947	Third year 1948	Fourth year 1949	Total four years	Fifth year 1950	Total five years
MILES OF LINE							
Five-year plan.....	1,135	2,151	1,532	1,357	6,175	1,154	7,329
Constructed.....	1,188	1,008	3,556	4,738	10,490	....	....
CONSUMERS TO BE SERVED							
Five-year plan.....	13,602	13,964	11,180	10,102	48,848	9,056	57,904
Actually served.....	16,802	20,691	26,036	35,206	98,735	....	....

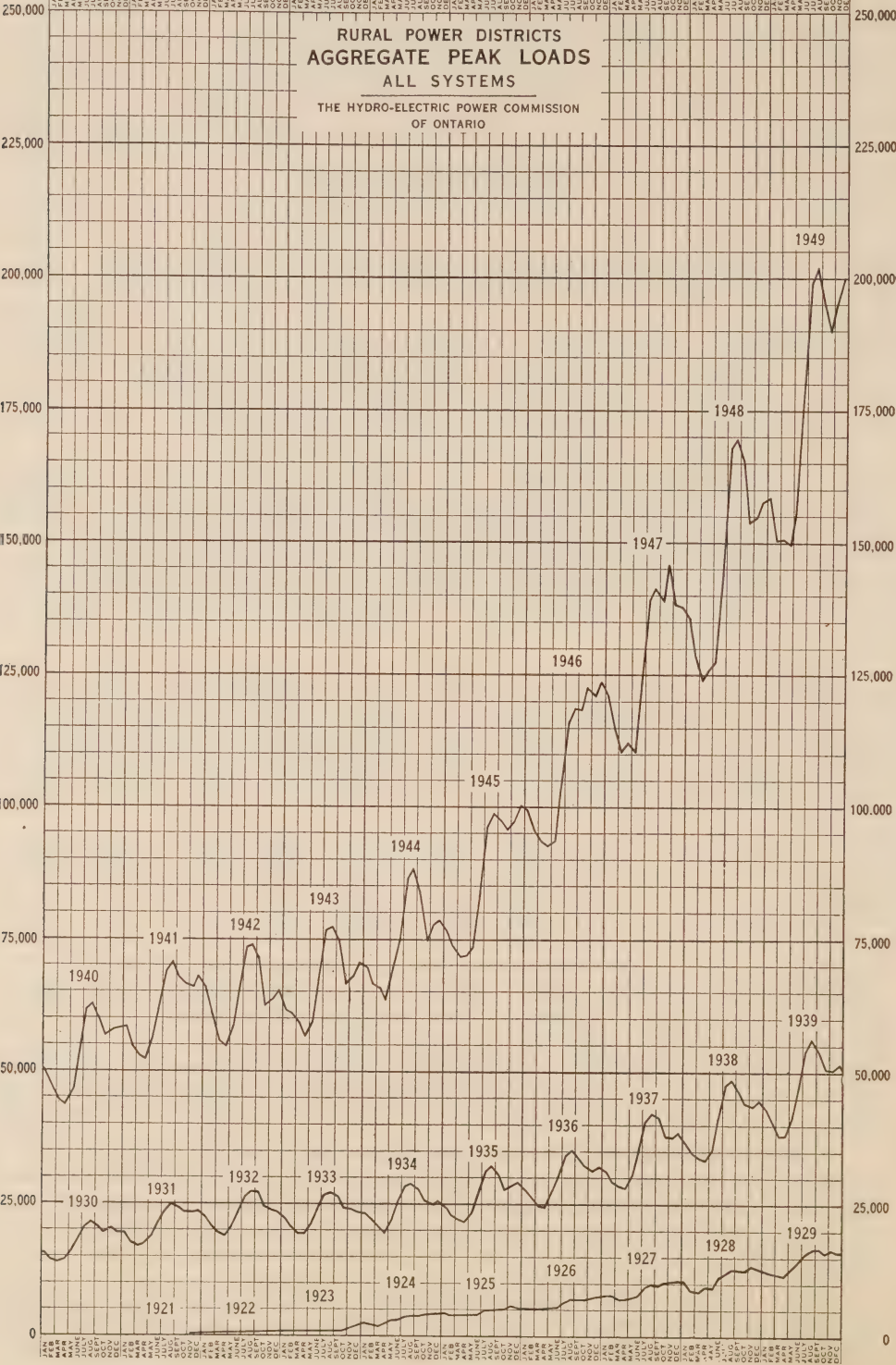
The above tabulation shows that for the first four years the mileage of new lines constructed exceeded that planned for the four-year period by 70 per cent, and the number of consumers added exceeded the plan by 102 per cent.

Sales of electricity in rural operating areas continue to increase at a high rate. It is expected that a high rate of increase will be maintained in the next few years, because the large number of new consumers recently served will be increasing their electrical equipment and making a much greater use of the service.

The uniform rate plan inaugurated by the Commission on January 1, 1944 relied heavily for its success upon revenues to be expected from increased sales of energy. As the cost of construction and the price at which

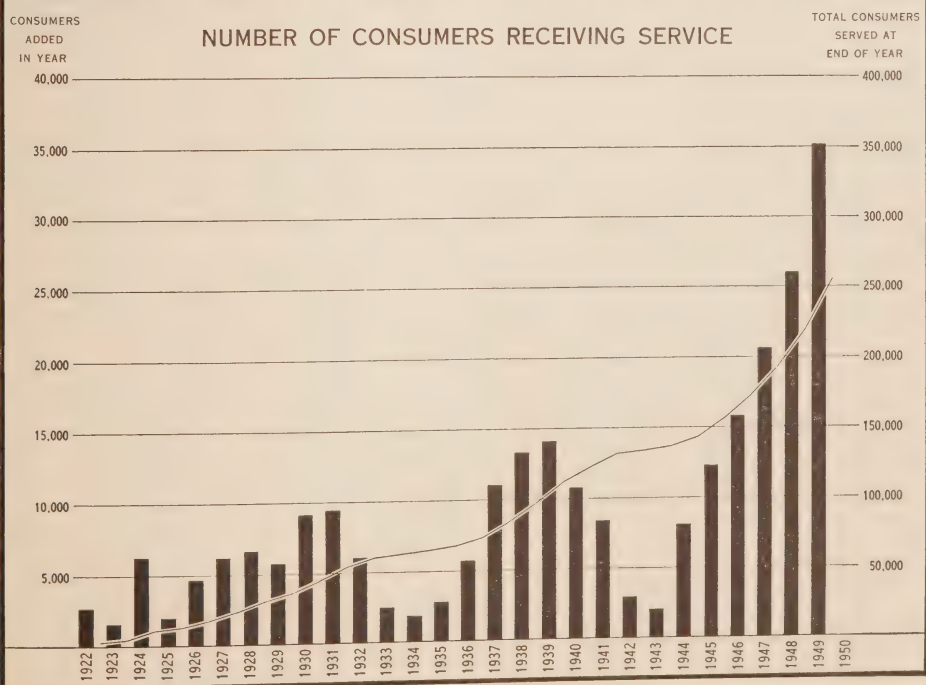
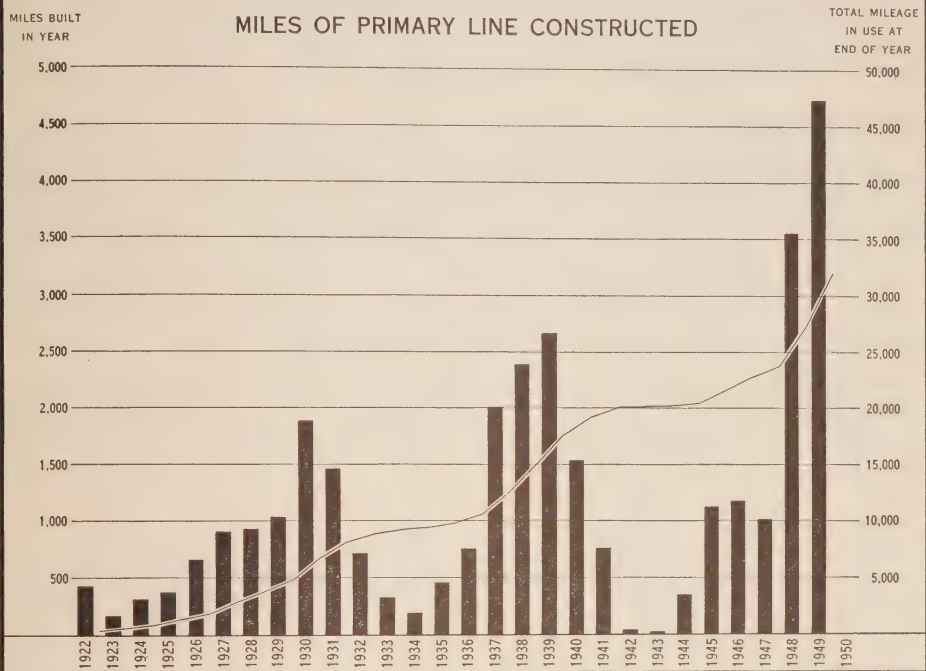
KILOWATTS

KILOWATTS



THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

RURAL POWER DISTRICTS



power may be delivered to the rural areas have substantially increased since World War II, it is imperative that consumers make the maximum economic use of the service supplied in order to maintain revenues that will meet the cost of supplying this service.

The revenues obtained during 1949 from all rural consumers were not sufficient to meet the costs to serve these consumers. The Commission is therefore making studies at the present time to remedy the situation.

Provincial Assistance

The amalgamation of rural districts and the unification of rates is made possible by the assistance given by the Province as part of its aid to agriculture. The extent and effect of the financial assistance in the distribution of power in rural operating areas should therefore be clearly understood.

The Government grant-in-aid of 50 per cent of the capital cost of lines and equipment for the supply of power relates solely to the initial capital investment for distribution facilities in rural operating areas.

In addition to this grant-in-aid the Government further participates in the operation of the province-wide Hydro rural service by guaranteeing the Commission against loss due to the fixing of a maximum service charge or its reduction or removal.*

Status of Rural Service in 1949

At the end of 1949 the Commission was distributing electrical power in 96 rural operating areas, and in addition was constructing lines in five recently formed areas, not yet operating. In 1949 one new rural operating area was formed in the East Central region. In addition, to provide more efficient operation, two new areas were formed made up of parts of existing areas. Consumers in the 101 rural operating areas now total 262,859, of which 7,564 on partially constructed lines received or will receive service after November, 1949. The total power supplied during the month of August was 202,073 kilowatts (271,000 horsepower) and during the month of October was 189,949 kilowatts (254,600 horsepower). It will thus be seen that the average demand per consumer is over three-quarters of a kilowatt, or one horsepower. The consumers served through rural operating areas are situated in 480 organized townships, 2 improvement districts, 50 unorganized townships and 138 villages, police villages and small towns, and are served over a network of rural primary lines which aggregate 32,059 miles. In addition to the 530 organized townships served by rural operating areas, 10 townships are served jointly by rural operating areas and municipal voted areas.

At the end of 1948, 2,211 miles of rural primary lines then under construction were not completed. In addition applications had accumulated which would require the construction of 3,104 miles of additional lines. Thus the Commission was faced with the problem of constructing 5,315 miles as soon as possible. The actual increase in miles constructed during the year to serve consumers amounted to 4,738 miles. Even with this maximum endeavour 1,068 miles remained to be constructed during the following year.

On October 31, 1949, having surveyed the new applications received and the available points at which power could be supplied, the Commission

*The Rural Power District Service Charge Amendment Act, 1944.

decided on an additional construction program of 2,000 miles of new lines. Together with the lines not completed in 1949 the full program will amount to approximately 3,100 miles in 1950.

The net increase in the number of consumers actually served during 1949, after making allowance for cancellation and sale of lines in territories annexed to municipalities, was 35,206. The number of consumers added in 1949 was 35 per cent greater than the increase in 1948, which up to that time had been the greatest in rural history.

Since 1921 the Commission has been unable during two periods to maintain the rate of growth of rural electrification. The first period started about 1932, and was the result of the depression. The second occurred during the recent war when service was provided only to those farms which could aid the war effort by increased production. To illustrate this feature of rural service two graphs have been placed in this section showing for each year since 1921 the miles of primary line constructed and the number of consumers who received service.

The large increase in the number of consumers served has created a corresponding increase in power requirements. Notwithstanding certain power conservation measures in force early in 1949, the average aggregate peak load supplied to all rural Hydro consumers amounted to 170,569 kilowatts (228,800 horsepower), an increase of 18.4 per cent over 1948.

The maximum aggregate power sold in rural areas, which occurs during the summer months, amounted to 202,073 kilowatts in the month of August, 1949, which exceeded the previous year by 19.3 per cent.

The growth in load required to serve rural consumers is shown on the accompanying table of load growth during the past twelve years, and on the peak load diagram.

LOAD GROWTH—RURAL OPERATING AREAS

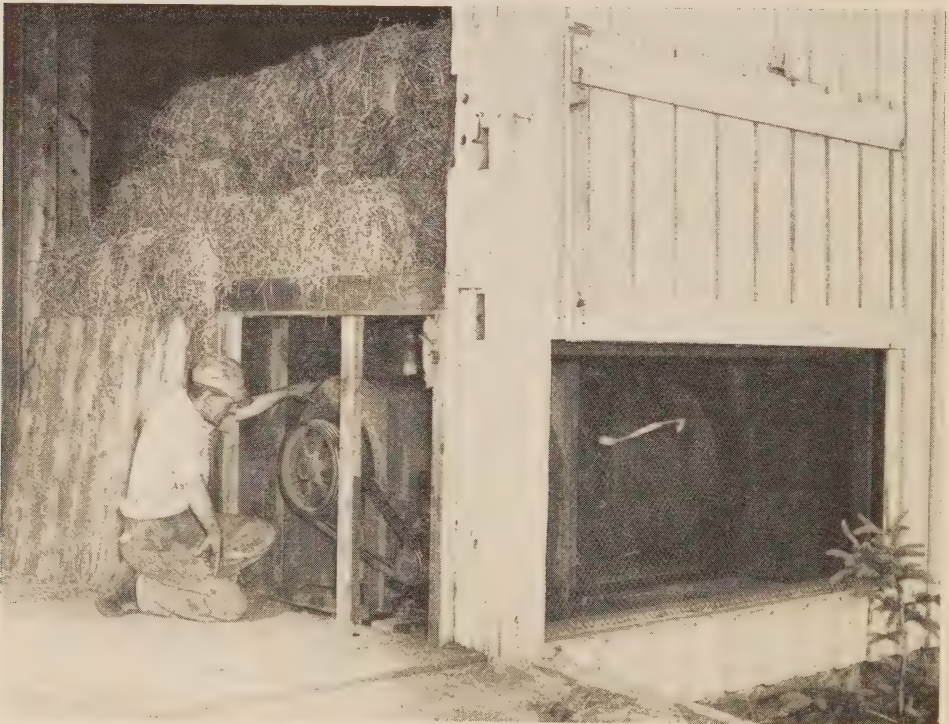
Year	Maximum aggregate peak load during year			Average aggregate peak load during year		
	horsepower	kilowatts	Increase for month	horsepower	kilowatts	Annual increase
			per cent			per cent
1938.....	65,022	48,506	8.5	53,383	39,824	7.9
1939.....	75,233	56,124	10.2	61,634	45,979	8.3
1940.....	84,346	62,922	9.1	70,018	52,233	8.4
1941.....	94,505	70,501	10.2	81,245	60,609	11.2
1942.....	98,887	73,770	4.4	86,616	64,616	5.4
1943.....	104,394	77,878	5.5	88,186	65,787	1.6
1944.....	118,267	88,227	13.9	98,576	73,538	10.4
1945.....	132,572	98,899	14.3	111,255	82,996	12.7
1946.....	164,424	122,660	36.1	139,818	104,304	28.6
1947.....	195,515	145,854	31.1	167,861	125,224	28.0
1948.....	227,130	169,439	19.9	193,144	144,085	15.0
1949.....	270,875	202,073	19.3	228,645	170,569	18.4

Aggregate peak load is the summation of peak loads of all rural operating areas for highest aggregate month. Increase indicates per cent over same month in previous year.

Average aggregate peak load is the summation of twelve monthly peak loads for each and all rural operating areas divided by twelve.

RURAL LINE EXTENSIONS APPROVED BY THE COMMISSION
DURING THE YEAR 1949

System	Miles of primary line	Net increase in number of consumers			Power supplied in October 1949	Capital approved for extensions	
		Farm	Non-farm	Total		Total	Provincial grant-in-aid
SOUTHERN ONTARIO					k.w.	\$	\$
Western region.....	238.06	1,680	3,218	4,898	50,472	2,362,644	1,181,322
West Central region...	227.69	1,546	3,087	4,633	41,267	2,895,078	1,447,539
Niagara region.....	39.43	258	1,133	1,391	12,851	899,558	449,779
Toronto region.....	51.95	359	1,791	2,150	15,945	885,642	442,821
Georgian Bay region...	827.39	2,622	3,755	6,377	22,811	4,503,528	2,251,764
East Central region...	499.82	1,613	2,725	4,338	22,406	3,062,248	1,531,124
Eastern region.....	416.23	1,901	1,734	3,635	15,833	2,508,144	1,254,072
Southern Ontario totals.	2,300.57	9,979	17,443	27,422	181,585	17,116,842	8,558,421
THUNDER BAY							
Northwestern region..	88.25	258	226	484	1,619	598,658	299,329
NORTHERN ONTARIO PROPERTIES							
Northeastern region...	535.80	1,376	2,257	3,633	6,465	3,447,692	1,723,846
Northwestern region...	236.90	458	295	753	280	1,324,984	662,492
Northern Ontario Properties totals.....	772.70	1,834	2,552	4,386	6,745	4,772,676	2,386,338
Totals.....	3,161.52	12,071	20,221	32,292	189,949	22,488,176	11,244,088



BARN HAY-CURING INSTALLATION

A motor-driven blower forces air through partially cured hay in the barn by a system of air ducts. It is claimed that the resulting hay is greener, leafier and has greater food value than field-dried hay

SUMMARY OF RURAL LINE CONSTRUCTION

Approved by the Commission from June 1, 1921 to October 31, 1949

Constructed or Under Construction

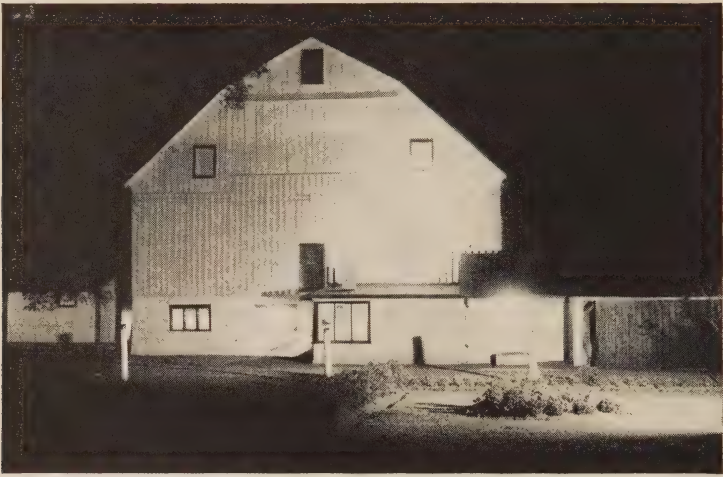
System	Miles of primary line	Number of consumers			Capital expenditure†	
		Farm	Non-farm	Total	Total	Provincial grant-in-aid
					\$ c.	\$ c.
SOUTHERN ONTARIO						
Western region	6,829.78	27,499	32,162	59,661	18,826,082.19	9,339,456.04
West Central region.	5,710.51	21,422	21,721	43,143	17,031,350.11	8,472,046.01
Niagara region. . . .	1,104.82	5,129	10,648	15,777	4,426,669.18	2,191,812.98
Toronto region	1,781.94	6,072	14,676	20,748	5,270,813.39	2,610,062.31
Georgian Bay region	6,328.86	16,364	28,933	45,297	17,005,191.41	8,379,544.64
East Central region.	4,806.42	13,303	22,725	36,028	13,053,347.70	6,492,582.05
Eastern region. . . .	3,965.11	12,019	12,491	24,510	11,056,731.32	5,500,517.05
Southern Ontario totals	30,527.44	101,808	143,356	245,164	86,670,185.30	42,986,021.08
THUNDER BAY						
Northwestern region	601.71	1,342	1,785	3,127	1,833,185.91	916,572.95
NORTHERN ONTARIO PROPERTIES						
Northeastern region.	1,626.25	3,365	9,831	13,196	6,512,492.12	3,213,837.57
Northwestern region	371.98	691	681	1,372	1,687,235.78	842,938.80
Northern Ontario Properties totals. . . .	1,998.23	4,056	10,512	14,568	8,199,727.90	4,056,776.37
Totals.	33,127.38*	107,206	155,653	262,859	96,703,099.11	47,959,370.40

*These totals include 1,068.12 miles of primary line under construction on October 31, 1949 and service to 7,564 (consisting of 4,428 farm and 3,136 non-farm) new consumers not completed until after the end of the fiscal year.

†During previous years the figures published in this statement represented the summation of all estimates since the beginning of rural operation. As the Commission was able in a large number of cases to construct these lines for a sum lower than the original estimate, it is now deemed advisable to show the actual cost for all years 1921 to 1949. Included in these figures is an estimate of the cost of completing lines partially constructed in 1949.

RATES FOR RURAL HYDRO SERVICE

In Appendix III to the Report will be found the rates to consumers in rural power districts in the year 1949. These rates, substantially the same as in recent years, will be adjusted in 1950 to meet the higher cost of providing service.



OUTSIDE LIGHTING ON THE FARM
Greatly facilitates after-dark chores, gives protection, and lessens the chance of accident

RURAL SERVICE STATISTICS 1944 TO 1948

Service	Year	Annual revenue	Energy consumption	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption
		\$ c.	kw-hrs.		cents	\$ c.	kw-hrs.
Farm service.	1944	2,396,508.94	113,706,660	59,639	2.11	3.53	167
	1945	2,606,431.15	137,194,727	65,141	1.90	3.48	183
	1946	3,072,921.16	176,460,859	72,285	1.74	3.72	214
	1947	3,430,307.61	206,420,795	78,668	1.66	3.79	228
	1948	3,942,730.96	242,291,332	87,530	1.63	3.95	243
Hamlet service.	1944	1,937,102.28	82,106,734	56,130	2.36	2.95	125
	1945	2,027,283.82	92,056,781	58,867	2.20	2.93	133
	1946	2,345,531.81	118,287,655	66,177	1.98	3.12	158
	1947	2,754,265.69	150,411,043	74,879	1.83	3.24	178
	1948	3,279,149.63	185,225,412	85,598	1.77	3.40	192
Commercial service. .	1944	341,646.50	15,010,213	8,262	2.28	3.51	154
	1945	381,570.09	18,915,619	8,870	2.02	3.72	184
	1946	468,391.94	25,069,924	10,315	1.87	4.07	218
	1947	572,625.58	33,304,037	11,851	1.72	4.30	250
	1948	706,949.62	41,665,764	13,589	1.70	4.63	273
Summer service.	1944	435,622.43	11,859,662	19,291	3.67	1.93	53
	1945	473,887.53	14,250,142	20,947	3.33	1.96	59
	1946	555,833.10	18,352,748	24,244	3.03	2.05	68
	1947	632,102.22	21,116,561	27,182	2.99	2.04	68
	1948	722,951.54	24,440,522	31,088	2.96	2.07	70

*It may be observed that the number of consumers reported here does not agree with those shown in other sections of the Annual Report of the Commission. This is due to the fact that the figures given here represent consumers actually billed, but do not include power or special contracts; whereas, elsewhere in the Report the tables show the number of contracts executed to the end of the fiscal year. In many cases service is not given until the following year.

1944 Estimated—due to reclassification during the year.

1944-5-6 Figures are for each fiscal year ended October 31st.

1947 and 1948 figures represent total billings to each consumer during the previous twelve months. Therefore, any increase or decrease in a consumer's demand after the last billing period is not reflected in this statement.



MODERN BARN-CLEANER INSTALLATION

In the upper picture the cleaner is shown installed in the gutter. The type illustrated consists of an endless chain to which scrapers are fastened at intervals. The chain and scrapers are operated by an electric motor and gear box as shown in the lower left-hand picture. The manure is discharged to a pit from which it is removed by an elevator, shown in lower right-hand picture, to the manure spreader

HAMLET AND HOUSE LIGHTING SERVICE

Classified as 1B, 1C and 2A from 1928 to 1943

Year	Annual revenue	Kilowatt-hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption.
	\$ c.	kw-hrs.		cents	\$ c.	kw-hrs.
1928	530,407.00	10,702,031	17,585	4.95	2.51	50.7
1929	663,311.00	14,424,770	21,219	4.60	2.85	62.0
1930	757,558.00	17,815,987	25,013	4.25	2.73	64.2
1931	974,224.17	22,127,474	31,176	4.40	2.88	65.6
1932	1,075,081.03	24,654,386	33,368	4.36	2.76	63.3
1933	1,133,368.70	25,410,470	35,941	4.46	2.70	60.1
1934	1,149,876.67	27,768,460	37,466	4.14	2.61	63.0
1935	1,171,873.28	30,802,290	39,751	3.80	2.53	66.5
1936	1,239,010.83	35,666,241	43,014	3.47	2.49	71.8
1937	1,331,919.46	40,935,040	46,785	3.25	2.47	76.0
1938	1,439,681.39	47,612,820	52,514	3.02	2.42	79.9
1939	1,649,496.29	54,787,544	58,328	3.01	2.36	78.3
1940	1,812,550.53	60,839,240	62,973	2.98	2.40	80.5
1941	1,995,468.46	67,587,082	67,939	2.95	2.45	82.9
1942	2,118,911.57	72,613,472	69,766	2.92	2.56	87.9
1943	2,170,221.41	73,980,871	70,919	2.93	2.57	87.6

FARM SERVICE

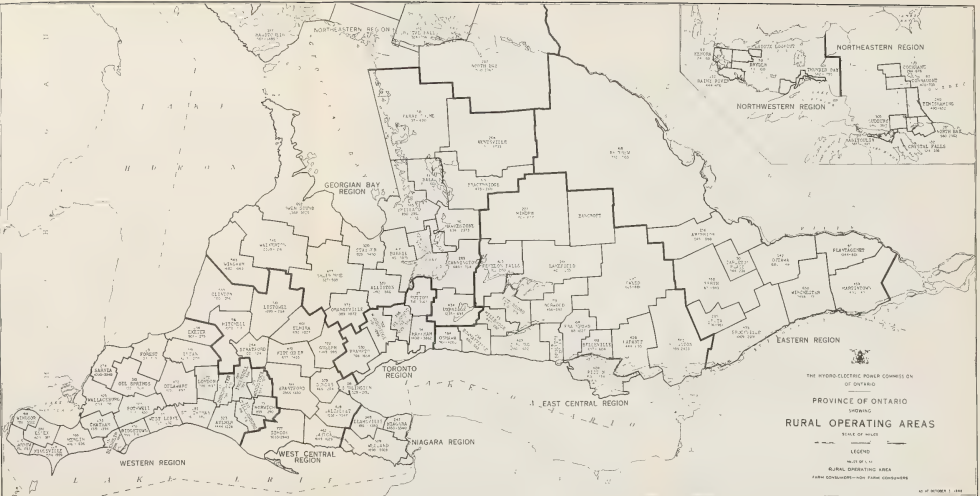
Classified as 2B, 3, 4, 5, 6A, 6B, 7A and 7B

from 1928 to 1943

Year	Annual revenue	Kilowatt-hours consumed	Number of consumers billed*	Average revenue per kw-hr.	Average monthly bill	Average monthly consumption.
	\$ c.	kw-hrs.		cents	\$ c.	kw-hrs.
1928	569,007.00	10,969,828	9,309	5.18	4.97	96
1929	777,736.00	16,022,842	12,605	4.85	5.85	121
1930	863,805.00	20,507,063	16,011	4.21	5.03	119
1931	1,128,554.28	25,716,141	20,796	4.39	5.11	116
1932	1,255,482.13	28,675,400	22,432	4.38	4.84	110
1933	1,309,122.96	30,062,194	23,283	4.35	4.75	109
1934	1,319,922.69	33,312,314	23,882	3.96	4.66	118
1935	1,343,222.39	37,667,453	25,357	3.57	4.55	128
1936	1,385,784.39	45,447,669	28,198	3.05	4.31	141
1937	1,366,484.50	54,858,240	35,508	2.49†	3.57	144†
1938	1,711,788.81	67,886,882	44,565	2.52†	3.56	141†
1939	2,090,259.14	81,613,087	53,240	2.56†	3.56	139†
1940	2,405,092.40	93,859,719	58,728	2.56†	3.41	133†
1941	2,690,250.37	107,061,610	63,304	2.51	3.54	141
1942	2,870,300.31	116,448,363	63,748	2.46	3.75	152
1943	2,934,011.31	121,428,714	64,292	2.42	3.81	158

* See footnote to table on page 58.

† In the period 1937 to 1940, there was an increase in the statistical average revenue per kilowatt-hour and a decrease in the statistical average monthly consumption per consumer. Actually there was a great increase in the use of electricity by nearly all individual Hydro consumers and a corresponding decrease to each consumer in the average cost per kilowatt-hour. But due to the tremendous growth at that time in new consumers, who for the first few years were not equipped to use large quantities of electricity each month, the smaller monthly consumption of the new consumers when averaged with the increased use of the older consumers produced per consumer averages which obscured the true trends of individual growth in use and individual reductions in costs.



THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

PROVINCE OF ONTARIO
SHOWING
RURAL OPERATING AREAS

SCALE OF MILES
LEGEND
RURAL OPERATING AREA
FARM CONSUMERS—NON FARM CONSUMERS

RURAL OPERATING AREAS
MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1949
Constructed and Under Construction

Rural operating area	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Ham-let	Com-mercial	Sum-mer	Power	Total	Miles	Con-sumers
SOUTHERN ONTARIO SYSTEM									
Western Region									
Aylmer.....	323.87	1,444	857	175	187	7	2,670	2.85	4
Blenheim.....	130.80	596	289	58	132	5	1,080	1.70	
Bothwell.....	365.72	1,205	281	131	1	17	1,635	4.05	27
Chatham.....	293.83	1,319	1,226	146	.....	22	2,713	7.34	11
Delaware.....	472.89	1,693	500	192	.....	5	2,390	3.95	26
Dorchester.....	192.47	788	368	89	2	11	1,258	1.90	2
Essex.....	286.77	1,403	755	120	504	8	2,790	2.65	8
Exeter.....	234.46	901	472	114	681	8	2,176	8.71	6
Forest.....	297.56	1,123	142	80	501	6	1,852	1.10	5
Harrow.....	226.98	1,192	614	106	1,041	4	2,957	3.33	7
Ingersoll.....	287.46	995	307	70	2	5	1,379	2.06	12
Kingsville.....	224.77	1,594	758	119	1,071	11	3,553	1.97	8
London.....	272.34	1,046	3,892	237	4	24	5,203	1.83	4
Lucan.....	319.58	1,033	124	82	.....	2	1,241	11.37	3
Merlin.....	359.02	1,416	347	144	199	6	2,112	12.50	25
Norwich.....	197.18	899	226	56	.....	8	1,189	0.40	2
Oil Springs.....	310.37	1,122	183	116	.....	5	1,426	2.72	19
Ridgetown.....	170.78	596	232	51	431	4	1,314	0.26	3
St. Thomas.....	285.87	1,116	1,223	143	9	7	2,498	1.96	10
Sarnia.....	274.27	1,090	2,969	222	751	7	5,039	4.22	21
Tillsonburg.....	233.91	998	580	121	.....	15	1,714	.....	1
Wallaceburg.....	425.46	1,559	708	188	171	14	2,640	13.90	107
West Lorne.....	231.34	725	144	55	30	3	957	2.05	12
Windsor.....	198.57	789	5,159	332	.....	31	6,311	2.16	.....
Woodstock.....	213.51	857	583	120	1	3	1,564	0.33	1
Total Western Region.....	6,829.78	27,499	22,939	3,267	5,718	238	59,661	95.31	325
West Central Region									
Brantford.....	611.91	2,566	1,103	201	14	12	3,896	11.45	18
Burlington.....	108.49	529	2,028	111	29	24	2,721	1.00	10
Cayuga.....	462.26	1,648	725	204	675	25	3,277	14.95	30
Clinton.....	533.69	1,780	691	196	364	5	3,036	9.91	68
Dundas.....	329.28	1,466	1,226	136	.....	12	2,840	3.85	31
Elmira.....	401.68	1,192	816	159	34	18	2,219	3.60	29
Guelph.....	322.99	1,048	862	106	17	10	3,043	4.80	35
Kitchener.....	472.99	1,637	2,929	301	165	38	5,070	5.87	16
Listowel.....	510.02	1,899	552	194	2	6	2,653	4.57	93
Mitchell.....	516.41	1,970	535	173	.....	9	2,687	2.70	2
Saltfleet.....	428.58	1,552	2,981	283	251	32	5,099	9.65	39
Simcoe.....	727.87	3,033	1,732	291	908	12	5,976	9.55	15
Stratford.....	284.34	1,102	412	102	1	9	1,626	2.90	.....
Total West Central Region.....	5,710.51	21,422	16,592	2,457	2,460	212	43,143	84.80	386

*Miles of line and total consumers, included in preceding columns.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1949

Constructed and Under Construction

Rural operating area	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Ham-let	Com-mercial	Sum-mer	Power	Total	Miles	Con-sumers

SOUTHERN ONTARIO SYSTEM—Continued

Niagara Region

Beamsville.....	348.08	1,951	1,029	183	145	23	3,331	12.20	5
Niagara.....	247.22	1,480	2,932	195	184	29	4,820	6.46	7
Welland.....	509.52	1,698	4,419	383	1,075	51	7,626	22.64	28
Total Niagara Region.....	1,104.82	5,129	8,380	761	1,404	103	15,777	41.30	40

Toronto Region

Brampton.....	530.70	1,766	1,176	177	266	15	3,400	6.79	22
Markham.....	341.69	1,430	2,814	225	782	41	5,292	5.91	20
Richmond Hill....	286.12	1,029	3,218	214	255	27	4,743	1.61	17
Sutton.....	271.06	716	1,055	158	2,339	15	4,283	3.30	44
Woodbridge.....	352.37	1,131	1,558	210	102	29	3,030	6.45	14
Total Toronto Region.....	1,781.94	6,072	9,821	984	3,744	127	20,748	24.06	117

Georgian Bay Region

Alliston.....	339.93	1,192	262	85	13	6	1,558	9.02	37
Bala.....	161.77	77	373	65	892	1	1,408	2.05	37
Barrie.....	416.23	1,145	1,252	190	2,426	7	5,020	2.59	8
Bracebridge.....	315.81	475	598	119	1,452	2	2,646	2.60	31
Cannington.....	285.83	683	416	103	1,183	2	2,387	8.32	41
Hawkestone.....	361.41	636	653	125	1,592	3	3,009	17.93	60
Huntsville.....	264.91	311	915	165	642	11	2,044	18.17	131
Midland.....	345.02	850	557	110	2,283	2	3,802	15.64	132
Orangeville.....	372.75	1,089	692	190	185	5	2,161	5.63	37
Owen Sound.....	892.33	2,388	1,377	387	1,256	5	5,413	19.72	236
Parry Sound.....	50.73	37	310	33	57	.....	437	1.80	9
Shelburne.....	477.17	1,327	359	125	21	.....	1,832	2.00	19
Stayner.....	320.64	929	608	134	2,705	3	4,379	3.89	50
Uxbridge.....	434.28	1,235	829	175	690	3	2,932	8.94	19
Walkerton.....	746.86	2,308	633	258	319	6	3,524	2.00	6
Wingham.....	543.19	1,682	552	220	288	3	2,745	0.96	27
Total Georgian Bay Region.....	6,328.86	16,364	10,386	2,484	16,004	59	45,297	121.26	880

*Miles of line and total consumers, included in preceding columns.

RURAL OPERATING AREAS
MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1949
Constructed and Under Construction

Rural operating area	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Ham-let	Com-mercial	Sum-mer	Power	Total	Miles	Con-sumers
SOUTHERN ONTARIO SYSTEM—Continued									
East Central Region									
Belleville.....	198.52	657	1,423	155	17	9	2,261	5.03	11
Bowmanville.....	238.17	680	469	94	87	3	1,333	.....	24
Brighton.....	118.96	357	133	24	155	2	671	10.45	33
Cobourg.....	469.62	1,286	845	192	592	3	2,918	3.48	59
Fenelon Falls.....	423.54	922	403	131	1,615	4	3,075	8.75	137
Frankford.....	364.82	1,188	693	141	193	.....	2,215	7.51	61
Kingston.....	562.91	1,598	1,642	346	421	14	4,021	31.03	190
Lakefield.....	241.40	407	451	111	489	2	1,460	24.78	154
Millbrook.....	155.83	440	190	53	39	.....	722	4.29	50
Minden.....	222.83	250	941	203	730	3	2,127	22.33	114
Napanee.....	426.16	1,444	826	234	127	6	2,637	10.08	51
Norwood.....	179.95	456	221	59	314	3	1,053	7.45	44
Oshawa.....	284.39	901	3,671	258	303	28	5,161	6.10	29
Peterboro.....	217.07	570	911	119	338	6	1,944	6.18	56
Picton.....	404.32	1,530	823	204	363	4	2,924	1.18	11
Tweed.....	297.23	625	522	122	236	1	1,506	8.56	37
Bancroft.....	0.70	.....	.....	.....	.....	.....	.....	.....	.....
Total East Central Region.....	4,806.42	13,311	14,164	2,446	6,019	88	36,028	157.20	1,061

Eastern Region

Arnprior.....	236.98	545	720	165	169	14	1,613	12.56	166
Brockville.....	573.73	1,909	1,222	334	522	13	4,000	0.10	281
Carleton Place....	150.06	344	102	52	81	1	580	5.14	53
Delta.....	285.99	706	451	134	376	.....	1,667	1.34	18
Martintown.....	459.09	1,430	799	216	120	5	2,570	3.44	113
Ottawa.....	542.00	1,880	1,936	358	170	27	4,371	4.25	75
Perth.....	360.33	871	449	138	352	4	1,814	30.34	195
Plantagenet.....	287.66	1,044	640	145	13	3	1,845	0.79	12
Renfrew.....	418.91	792	1,157	248	81	17	2,295	10.32	162
Winchester.....	650.36	2,498	917	300	31	9	3,755	0.10	3
Total Eastern Region.....	3,965.11	12,019	8,393	2,090	1,915	93	24,510	68.38	1,078

THUNDER BAY SYSTEM

Northwestern Region

Thunder Bay.....	601.71	1,342	1,253	191	332	9	3,127	16.32	188
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*Miles of line and total consumers, included in preceding columns.

RURAL OPERATING AREAS

MILES OF LINE, NUMBER OF CONSUMERS—OCTOBER 31, 1949

Constructed and Under Construction

Rural operating area	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Consumers

NORTHERN ONTARIO PROPERTIES

Northeastern Region

Cochrane.....	120.90	294	621	53	2	.....	970	1.50	327
Connaught.....	182.88	470	537	111	44	11	1,173	9.70	66
Crystal Falls.....	132.17	324	277	59	.....	.....	660	16.91	660
Manitoulin.....	357.51	587	941	294	241	9	2,072	90.08	239
North Bay.....	287.10	560	1,699	213	442	8	2,922	52.36	307
Sudbury.....	305.21	640	3,127	231	245	14	4,257	85.30	393
Timiskaming.....	240.48	490	463	109	74	6	1,142	80.34	662

Northwestern Region

Dryden.....	70.00	111	94	35	1	.....	241	15.60	241
Kenora.....	62.20	124	42	6	12	.....	184	39.40	184
Rainy River.....	232.03	444	343	129	.....	4	920	68.30	383
Sioux Lookout....	7.75	12	7	.....	8	.....	27	.....	27
Total Northern Ontario Properties	1,998.23	4,056	8,151	1,240	1,069	52	14,568	459.49	3,489

SUMMARY

Region	Miles of line	Number of consumers						Not completed in 1949*	
		Farm	Hamlet	Commercial	Summer	Power	Total	Miles	Consumers
Western.....	6,829.78	27,499	22,939	3,267	5,718	238	59,661	95.31	325
West Central.....	5,710.51	21,422	16,592	2,457	2,460	212	43,143	84.80	386
Niagara.....	1,104.82	5,129	8,380	761	1,404	103	15,777	41.30	40
Toronto.....	1,781.94	6,072	9,821	984	3,744	127	20,748	24.06	117
Georgian Bay.....	6,328.86	16,364	10,386	2,484	16,004	59	45,297	121.26	880
East Central.....	4,806.42	13,311	14,164	2,446	6,019	88	36,028	157.20	1,061
Eastern.....	3,965.11	12,019	8,393	2,090	1,915	93	24,510	68.38	1,078
Southern Ontario Totals.....	30,527.44	101,816	90,675	14,489	37,264	920	245,164	592.31	3,887
Northwestern (Thunder Bay)...	601.71	1,342	1,253	191	332	9	3,127	16.32	188
Northwestern (N.O.P.).....	371.98	691	486	170	21	4	1,372	123.30	835
Northeastern.....	1,626.25	3,365	7,665	1,070	1,048	48	13,196	336.19	2,654
Total all regions...	33,127.38	107,214	100,079	15,920	38,665	981	262,859	1,068.12	7,564

*Miles of line and total consumers, included in preceding columns.

SECTION V

FREQUENCY STANDARDIZATION

A DECISION to standardize the frequency in the Niagara division of the Southern Ontario system at 60 cycles, to conform to the frequency generally prevailing elsewhere in Canada and throughout the United States, was recommended in 1948 by The Hydro-Electric Power Commission of Ontario, approved by the Provincial Government and endorsed by the Ontario Municipal Electric Association. The preliminary steps to organize a department of the Commission for this work were taken in August 1948. In 1949 organization continued and the task of converting consumer frequency-sensitive equipment was commenced.



MOBILE WORKSHOPS EXPEDITE THE WORK OF FREQUENCY STANDARDIZATION

A contract was executed with Canadian Comstock Company Limited for the initial inventory and actual conversion of consumers' equipment in specified areas, all under the supervision of the Commission's engineers. The areas in which this work is being undertaken are the townships of East York and Scarborough, the cities of Sarnia and London and certain sections in the Hamilton district. The actual work under the contract was started on January 18, 1949.

The change-over of the first consumers took place on May 18, 1949, in East York township and since that date the work has proceeded as rapidly as personnel, equipment and materials could be obtained. At the end of October 1949, 2,679 consumers had had their equipment converted. This comprised 10,166 items equivalent to a connected load of 4,317 horsepower. In addition inventories had been completed for nearly 500,000 horsepower of connected load, which includes the equipment of nearly 25,000 consumers of domestic, commercial and industrial classes.

The contractor's head office for the frequency standardization work was established at St. Catharines, where large warehouses and office space were available. The contractor's first field office was established in Scarborough township. Field offices and warehouses were also established in London, Sarnia and Hamilton.

The Commission's main warehouses for the storage of standardization material are being constructed at Islington, near the new Kipling transformer station in Etobicoke township. Here by the end of October 1949 the Commission had three large warehouse buildings completed, providing some 90,000 square feet of storage space. An office building and additional storage buildings, a motor-rewinding shop, and meter rebuilding and stores shop are being erected.

Equipment, including frequency converters, portable machine shops, field offices on trailers, and other vehicles and standardization material, costing between eight and nine million dollars has been ordered, of which equipment costing about three and one-half million dollars has been delivered.

To facilitate efficient operations in the field, and to maintain liaison with the regional offices, local utilities, consumers, and the contractor, Frequency Standardization Division area offices were established in Scarborough, Sarnia and London areas, each under the supervision of an area project manager. Posted to these offices were sections of the Consumer Service department, Planning department, Conversion Engineering department, etc.

Conversion of Commission and Municipal Equipment

The Electrical Engineering department will carry out the conversion of the Commission's facilities, and upon request render assistance to the municipalities.

Based on frequency standardization requirements the Electrical Engineering department will provide detailed plans for the change-over of the distributing system, erect and remove temporary transmission lines and stations, and have available mobile substations, frequency-changers, diesel-driven generators, regulators and transformers to provide temporary power during the change-over of consumer equipment.

As of October 31, 1949 some 150 municipalities have requested assistance in standardizing their systems.

The following table summarizes the progress on frequency standardization work in all areas up to October 31, 1949.

Class	Number of consumers		Inventoried			Standardized		
	Estimate	Released for inventory	Consumers	hp	Items	Consumers	hp	Items
Domestic.....	174,541	43,847	22,109	12,620	71,766	2,494	1,501	8,640
Commercial.....	16,590	2,763	1,473	4,334	10,897	157	340	827
Power.....	2,360	1,381	1,161	480,448	83,468	28	2,476	699
Total. . . .	193,491	47,991	24,743	497,402	166,131	2,679	4,317	10,166

A résumé of the Division’s operation will explain the headings used in the table. The Frequency Standardization division estimates the number of consumers of all classes in the 25-cycle area whose equipment is to be standardized and detailed system data are compiled by survey of each consumer. This information is then released to the contractor who makes an inventory of each consumer’s equipment and thereby accumulates the total consumers, items, and corresponding connected horsepower. These data are processed to determine the materials required, following which the necessary requisitions are placed with the Frequency Standardization division, which is responsible for having the material on hand prior to the cut-over. The Division arranges the details of the cut-overs and on each cut-over day the contractor changes the equipment in the homes, offices and factories to operate at the standard frequency of 60-cycles.



FREQUENCY STANDARDIZATION

Standardization of domestic equipment is performed with up-to-date equipment and transportation of domestic appliances is done with great care using specially designed trucks

SECTION VI

ENGINEERING AND CONSTRUCTION

Record Year in Construction Activities—Power Developments and Facilities Proceeding Rapidly—Provision of Emergency Steam Plants

THE construction of the large power developments continued unabated and the former all-time peak of construction activities reached in 1948 was exceeded in 1949.

Construction of the power developments at Des Joachims, La Cave, Chenaux, Tunnel and Pine Portage is proceeding rapidly. Though the original dates for completion of these projects have been advanced from time to time, the Engineering and Construction divisions are confident that the earlier dates will be met.

The extensive transmission lines and terminal facilities required to incorporate these new power sources into the existing systems will be ready to transmit the new power as it becomes available.

In addition to the provision of these major power facilities, overloaded conditions are being remedied by increasing capacities of transmission, transformation and distribution equipment throughout the Province.

Owing to the magnitude of the over-all program, it was found advantageous to employ consultants for the planning, engineering and designing of some projects, including the Chenaux hydro-electric development, the J. Clark Keith and the Richard L. Hearn generating stations at Windsor and Toronto respectively and five emergency steam-electric generating stations. Construction of these plants, the Tunnel hydro-electric development and the McConnell Lake dam of the Des Joachims development has been undertaken by general contractors.

The Commission's large construction staff was employed at Des Joachims, Pine Portage and La Cave hydro-electric developments, in the construction

The following abbreviations are used as required in this Section of the Annual Report:

hp	horsepower—unit of capacity
kw	kilowatt (s)—unit of capacity
kwhrs	kilowatt-hours—unit of energy
kV	kilovolt (s)
kva	kilovolt-ampere (s)

of the transmission, transformation and distribution facilities and on the rural program. The supervision of the whole program is the responsibility of the engineering staff of the Commission.

At the end of 1949 there were several hundred separate station and transmission line jobs under construction, ranging from small projects costing one or two thousand dollars to high-voltage lines and large frequency-changer and transformer stations and power developments costing several million dollars.

A typical example of the diversity encountered in line work is the construction, now under way, of the 230,000-volt circuits leading from the Des Joachims development on the Ottawa river. Two single circuits and one double circuit, carried on three steel-tower lines, are being constructed to Minden together with a telephone line carried on wood poles on the same right-of-way. From Minden the lines branch off. Two circuits lead to the Kipling transformer station near Toronto. Then a double-circuit line runs from Kipling via Burlington to Mount Hope. The other branch from Minden is a double-circuit line running to the Westminster transformer station near London. Altogether about 372 miles of double-circuit and 344 miles of single-circuit lines are being constructed.

The route selected for the right-of-way from the Des Joachims development to Minden was through broken country, heavily forested, where no roads existed. It was necessary to construct a road adjacent to the right-of-way as soon as possible, to assist in clearing the right-of-way, for use in the haulage of steel-tower materials, cable, camp supplies and for the transportation of men. The road was constructed during 1949 and, among other items, steel for 1,384 towers was hauled over it. A right-of-way 450 feet wide involved clearing about 5,000 acres of land and incidentally the cutting of some six million feet of softwood lumber as well as large quantities of hardwood, all of which were made available for other projects. The road itself runs from the highway at Haliburton through one hundred miles of uninhabited country to the Ottawa river.

The Construction division is constantly investigating new methods and machines to reduce construction costs and in these efforts can report great success. Another function of the division is the equipping of the various projects with adequate supplies of construction plant and tools and the provision of portable buildings and equipment for the camps, including both living and recreational requirements. The division also operates a salvage section, which reconditions supplies and obsolete materials; these not only effect large savings but also prove valuable in speeding Commission projects when shortages of critical materials occur.

Supply of Material and Equipment

At the beginning of the calendar year 1949 a definite easing in supply conditions became noticeable. Over the previous four years a short supply of materials and equipment coincided with the Commission's post-war construction program and although the needs of the engineering, construction and operation divisions have at all times been met, the costs have been heavy owing to the high prices that invariably accompany a great demand for a limited supply.

The improvement in availability of supplies was accompanied by some stabilization in prices. The major items of material and equipment required for the construction program have now either been obtained or their delivery assured. The near completion of the new central stores at Islington, with its accumulation of extensive reserve stocks, is helping to stabilize supplies, and it appears that for the near future the Commission's main difficulties with respect to supply have been overcome.

System Planning

The basic work of the System Planning department is to determine new sources of power and plan for their co-ordination into the various systems. In 1949 it included making plans for incorporation of the authorized thermal generating stations into the Southern Ontario system. Planning of the 230-kv, 60-cycle network and associated facilities was completed. Basic area plans were prepared for the initial frequency standardization projects, and means for providing a 60-cycle supply to the areas to be converted were determined. Supplies to new customers were arranged to fit in with the overall plans for each area. The development of plans for subtransmission networks continued, and studies were made of the need for suitable locations for new step-down transformer stations to serve municipalities and direct customers of the Commission. The development of a practical scheme of single-pole reclosing of high-voltage circuit-breakers was a major project. This was undertaken to provide a means for economically improving service security and protecting system resources.



DES JOACHIMS POWER DEVELOPMENT, OTTAWA RIVER
Powerhouse section of main dam with penstocks behind. Progress as recorded in November 1949

PROGRESS ON POWER DEVELOPMENTS

Excellent progress was made in 1949 on five major hydro-electric developments; one storage dam was completed, two large steam-electric stations were started and certain small emergency steam-electric stations were put into operation.

In the following paragraphs the main features of the developments are listed and progress made during 1949 is summarized.

SOUTHERN ONTARIO SYSTEM

DES JOACHIMS GENERATING STATION—OTTAWA RIVER

Situation—About 38 miles upstream from Pembroke.

In service—First four units in the Summer of 1950, all remaining units by early 1951.

Capacity—Eight units 358,000 kilowatts (480,000 horsepower), 60 cycles.

Head—130 feet.

Lengths—Main dam 2,400 feet, auxiliary dam 1,300 feet, McConnell Lake dam 1,600 feet.

Estimated cost—\$75,775,000.

The main dam was finally closed on September 15, 1949 and the whole flow of the river was diverted through the McConnell Lake dam and then via McConnell lake to return to the main channel of the Ottawa river near Des Joachims village. The consequent dewatering below the main dam permitted a start to be made on the excavation of the tailrace, which extends from the downstream side of the powerhouse for about 7,200 feet and conveys the outflow from the powerhouse to the Deep River section of the Ottawa river.

The bulk of the concrete has been poured in the main dam, the major part of which is now at its final crest level and about one-half of the concrete has been placed in the powerhouse substructure. Penstock erection was completed for units 1 and 2 and was proceeding on the remaining units. Concrete pouring was completed for the auxiliary dam. The closure of the sluices in the McConnell Lake dam commenced on November 3, 1949 and the water level upstream was being gradually raised as the closure proceeded. Some 2,600 men were engaged on the development.

CHENAUX GENERATING STATION—OTTAWA RIVER

Situation—About 60 miles downstream from Des Joachims and 10 miles north of Renfrew.

In service—Three units in January 1951, remaining units by November 1951.

Capacity—120,000 kilowatts (160,000 horsepower).

Head—40 feet.

Lengths—Main dam 1,400 feet, Limerick Island dam 1,100 feet, Portage du Fort dam 1,400 feet, side dam 100 feet.

Estimated cost—\$29,800,000.

The Portage du Fort dam was completed in December 1949. Rapid progress is being made on the main dam and about one-half of the concrete required for the powerhouse substructure has been poured. Over 1,300 men were employed on the project at the end of the year.

LA CAVE GENERATING STATION—OTTAWA RIVER

Situation—About 5 miles upstream from Mattawa.

In service—First unit in January 1952, five additional units at intervals of two months.

Initial capacity—Six units 144,000 kilowatts (192,000 horsepower)

Ultimate capacity—Eight units 192,000 kilowatts (257,000 horsepower).

Head—77 feet.

Length—Dam and headworks 2,500 feet.

Estimated cost—\$50,000,000.

Actual construction started early in 1949 and necessitated the relocation of the greater part of the Canadian Pacific Railway line from Mattawa to Timiskaming. Contracts were let for the railroad grading and other necessary work and this is going ahead. At the main dam a diversion channel was completed and concrete pouring was in progress for the channel sluices and also for the part of the dam on the right bank of the river. About 1,400 men were employed at the end of the year.

J. CLARK KEITH GENERATING STATION (STEAM)

Situation—On the Detroit river near Windsor.

In service—First unit October 1951, second unit December 1951.

Capacity—Two units 120,000 kilowatts (160,000 horsepower), 60 cycles.

Estimated cost—\$25,000,000.

H. G. Acres and Company, consulting engineers, have been retained to carry out the engineering and to supervise the construction. Construction and engineering offices and buildings were erected and the soil characteristics of the area were determined. Later steel test-piles were driven and the actual construction commenced in the spring of 1949. A railway spur was built 1-½ miles to connect the site with the Essex Terminal Railway main line. This spur will be used to transport the turbine-generators and other heavy equipment. A coal unloading dock with shore connection was constructed from river's edge to deep water at the harbour line. Permanent piles were driven and placing of the substructure concrete has been completed.

The station is to be provided with special equipment to extract the dust and fly-ash from the chimney gas to avoid smoke nuisance.

RICHARD L. HEARN GENERATING STATION (STEAM)

Situation—440 Unwin avenue, Toronto south of the Ship Channel in the eastern area of the harbour.

In service—First unit November 1951, second unit February 1952.

Capacity—Two units 200,000 kilowatts (268,000 horsepower), 60 cycles.

Estimated cost—\$40,000,000.

For this station the Stone & Webster Engineering Corporation have been retained to carry out the engineering and to supervise the construction.

During 1949 soil exploration was undertaken, test-piles were driven and a railway siding was built for construction purposes. Amongst the preliminary activities were the erection of the contractors' and engineering offices, construction of permanent roadways, and a connection made to the city water supply. The driving of permanent piles commenced in September 1949 and is proceeding satisfactorily.

The first unit will supply electrical energy at 25 cycles, but is so designed that it can readily be converted to 60-cycle generation later. The second unit will be designed for 60 cycles.

The station is to be provided with special equipment to extract the dust and fly-ash from the chimney gas to avoid smoke nuisance.

Emergency Steam Stations

Five emergency steam stations are at present under construction. They are being built expressly to help ease the power situation in the Southern Ontario system. R. A. Hanright, consulting engineer was retained for the design and supervision of construction of these plants.

SCARBOROUGH GENERATING STATION (STEAM)

Situation—500 Unwin avenue, Toronto, south of the turning basin in the eastern area of the harbour.

In service—November 17, 1949.

Capacity—Four units 20,000 kilowatts (26,800 horsepower) 60 cycles.

Estimated cost—\$3,500,000.

A site was leased from the Toronto Harbour Commission and construction commenced in the summer of 1949. Foundations were laid and a temporary building erected to house the four steam-electric generating units and auxiliaries.

HAMILTON GENERATING STATION (STEAM)

Situation—Burlington road in the eastern area of Hamilton bay.

In service—November 23, 1949.

Capacity—Two units 10,000 kilowatts (13,400 horsepower) 60 cycles.

Estimated cost—\$1,500,000.

The foundations and certain sections of the old Hamilton steam plant were altered to permit the installation of two 5,000-kw, turbine-generators and four steam generating units and auxiliaries. This station will assist in serving Hamilton's present 25-cycle area when that city is converted to 60-cycle operation. Initially the power from both units will be fed into a frequency-changer at the Canadian Westinghouse Company's plant in Hamilton.

STELCO GENERATING STATION (STEAM)

Situation—At the plant of the Steel Company of Canada, Hamilton.

In service—November 21, 1949.

Capacity—One unit 6,000 kw (8,000 horsepower), 25 cycles.

Estimated cost—\$350,000.

A used turbine-generator was purchased from the Dominion Iron & Steel Company of Sydney, Nova Scotia. New foundations and a building extension

were constructed to house the generator and a new condenser was installed. Other necessary changes were made to the Company's plant for the operation of the turbine-generator, steam for which will come from the company's boilers.

ONTARIO PAPER COMPANY GENERATING STATION (STEAM)

Situation—On the Welland canal near the plant of the Ontario Paper Company, Limited, Thorold.

In service—December 1, 1949.

Capacity—Three units 15,000 kw (20,000 horsepower), 60 cycles.

Estimated cost—\$1,500,000.

The site was leased from the Department of Transport and a temporary building was erected to house four turbine-generators with auxiliaries. The steam will be supplied by the Ontario Paper Company, Limited.

CANADA AND DOMINION SUGAR COMPANY GENERATING STATION (STEAM)

Situation—At the plant of the Canada and Dominion Sugar Company, Limited at Chatham.

In service—February 1950.

Capacity—One unit 10,000 kw (13,400 horsepower), 25 cycles.

Estimated cost—\$500,000.

Arrangements were made with the Canada and Dominion Sugar Company for the installation of a 10,000-kw turbine-generator with auxiliaries in a temporary building at their plant. New condensers and auxiliaries were installed and the steam will be supplied by the Company.

THUNDER BAY SYSTEM

PINE PORTAGE GENERATING STATION—NIPIGON RIVER

Situation—About 24 miles north of Nipigon.

In service—First unit July 1950, second unit September 1950.

Initial capacity—Two units 60,000 kilowatts (80,000 horsepower).

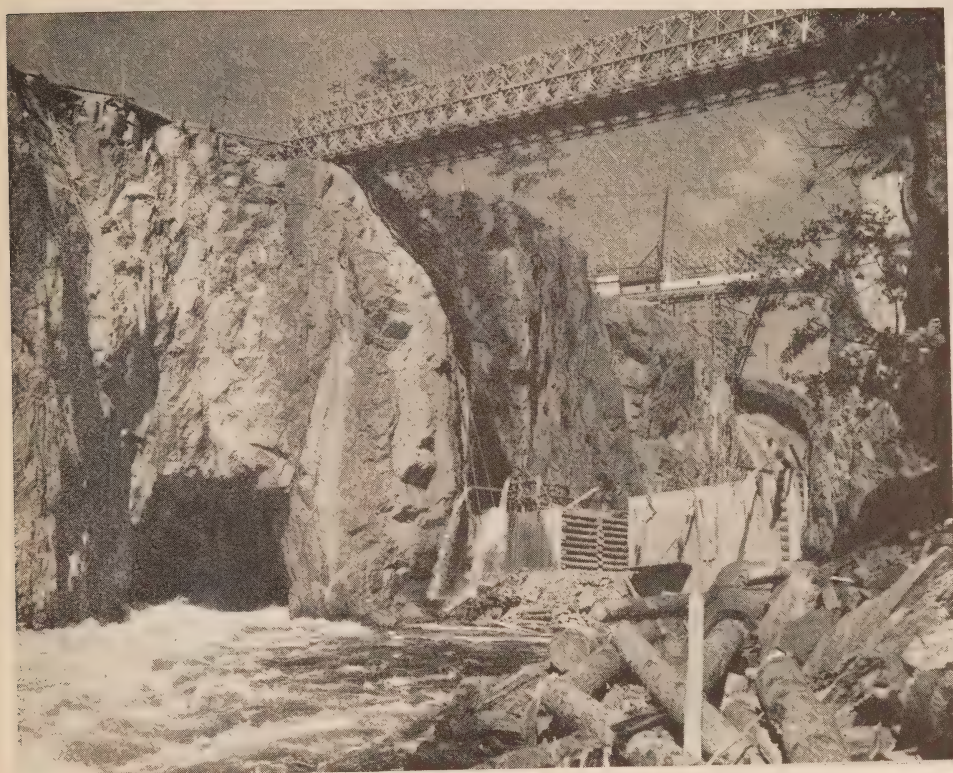
Ultimate capacity—Four units 120,000 kilowatts (160,000 horsepower).

Head—105 feet.

Length—Main dam 3,000 feet.

Estimated cost—\$26,300,000.

More than 70 per cent of the concrete in the main dam and 60 per cent in the powerhouse was placed. Concrete work was proceeding on the spillway and on the foundations for the high-voltage switching structures. Erection of the two turbine units was under way. Tailrace excavation was almost finished and all of the area that will be flooded upstream from the dam has been cleared. The Pine Portage project was the only remaining site available for development on the Nipigon river and on its completion about 240 feet of the total fall of 250 feet from lake Nipigon to lake Superior will be developed. About 1,300 men were employed on the project.



TUNNEL POWER DEVELOPMENT, MISSISSAGI RIVER

Showing mouth of diversion tunnel blasted through solid rock 900 feet long and 30 feet in diameter. Taken in July 1949

NORTHERN ONTARIO PROPERTIES

TUNNEL GENERATING STATION—MISSISSAGI RIVER

Situation—18 miles northeast of Thessalon.

In service—Two units June 1950.

Capacity—Two units 42,000 kilowatts (56,000 horsepower).

Head—210 feet.

Length—1,000 feet.

Estimated cost—\$17,400,000.

This development, built in a narrow canyon, consists of a high, gravity-type, concrete dam with the powerhouse situated on the down-stream face. Flood waters of the river will pass through the sluices in an extension of the main dam on the left bank of the river and thence, by a diversion channel, will return to the river some distance downstream. More than 80 per cent of the concrete has been placed in the main dam and about one-half in the powerhouse. The erection of the sluice gates and closure gate was completed. Approximately 850 men are employed on the project.

Some 40 miles upstream from the development, a storage dam was built during 1949 at Rocky Island lake, where a storage reservoir, with a capacity

of 300,000 acre-feet, will regulate the flow of the river and assure maintenance of suitable flows in the fall and winter months. The reservoir is equipped to store the spring run-off of 1950. Other sites on this river when developed will benefit from this storage.

Other Activities

In addition to the main projects, major rehabilitation and renewals have proceeded on existing developments, including the replacement of wood-stave conduits at Sandy Falls and Wawaitin on the Mattagami river.

TRANSFORMER STATIONS AND TRANSMISSION LINES

In line with the progress made during 1949 on several main generating stations there was corresponding progress on the provision of transformer stations and new transmission lines. Most of the work on large hydro-electric developments approaches completion before the installation of electric generating units; thus the peak of construction on the hydraulic features is passed before the transformer stations and transmission lines are needed. This situation was occurring in the Commission's construction program towards the end of 1949 and consequently the program for 1950 will feature a lessening percentage of work on generation and an increasing percentage on transformation and transmission.

Projects for transformer stations and transmission lines are very numerous. Most of them can be segregated into one or other of five main geographic groups. Each group involves a combination of stations and transmission lines of substantial length and in three of the groups frequency-changers are provided.

At the end of this section tabulations are presented which list all major increases in transformer capacity installed during the year and the total mileage of transmission lines and circuits constructed during the year.

Details of the satisfactory progress made during 1949 are given below:

SOUTHWESTERN ONTARIO

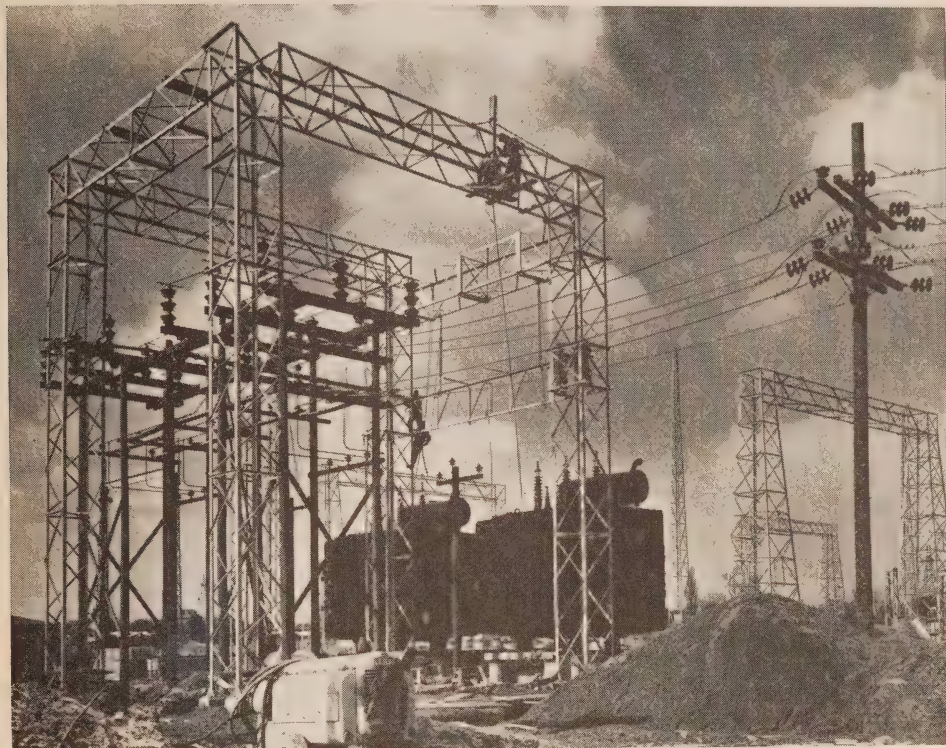
Westminster Frequency-Changer and Transformer Station

The second 25,000-kva frequency-changer unit with its transformers and other associated equipment was placed in service in April 1949. Work is proceeding on the extension of the station to provide for the third 25,000-kva frequency-changer unit which is scheduled for service in August 1950. The construction of facilities to receive Des Joachims and La Cave power in 1950 are also under way. These comprise three 90,000-kva, 3-phase, 60-cycle, 230/121/13.2-kv autotransformers and two 48,000-kva, 60-cycle, 13.8-kv synchronous condensers.

TORONTO AND HAMILTON AREAS

Kipling Transformer Station

Construction work at Kipling transformer station continued in 1949. The two 25,000-kva, 115,000/26,400-volt, 3-phase, 25-cycle transformers, the second stage in the construction of this station, were placed in service



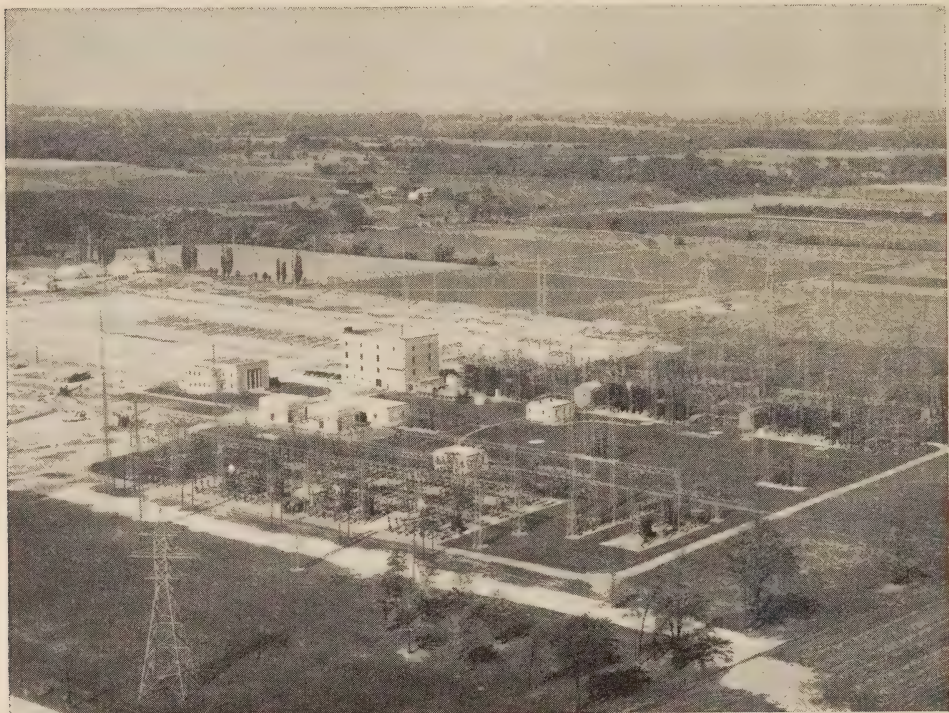
KIPLING TRANSFORMER STATION WEST OF TORONTO
Assembling regulating structure for the 115,000-volt, 25-cycle transformers

in March and April 1949 together with associated equipment. Also, three 25,000-kva, single-phase, 25-cycle, 230/115-kv transformers and associated equipment, required to receive 25-cycle power from eastern generating sources through a 230,000-volt line from Masson, Quebec, a distance of 253 miles, were placed in service in September 1949. The line was made alive from Masson to Leaside junction in December 1948, but the section from Leaside junction to Kipling transformer station was not placed in service until September 1949. This work was described as the third stage in "Hydro in 1948."

The fourth stage, which includes the provision of equipment to receive Des Joachims 60-cycle power, is under way. It is expected that two of the three 90,000-kva, 230/121/13.2-kv, 3-phase, 60-cycle autotransformers and two 48,000-kva synchronous condensers will be ready for service in July 1950. The two 40,000-kva, 230/26.4-kv, 3-phase, 60-cycle transformers are expected to go into service in the fall of 1950, but the rest of the equipment, which consists of two 40,000-kva, 26.4-kv, 3-phase, 60-cycle regulating transformers is not expected until 1951.

Burlington Transformer Station

At Burlington transformer station work is progressing to provide facilities for the receipt of Des Joachims power during the summer of 1950. This includes two 90,000-kva, 230/121/13.2-kv, 3-phase, 60-cycle autotrans-

**BURLINGTON TRANSFORMER STATION**

Aerial view

formers and one 48,000-kva, 60-cycle, synchronous condenser with associated equipment. The 230-kv switching equipment is scheduled for service in August 1950. The first transformer is scheduled for November 1950 and the second for January 1951.

Des Joachims and La Cave Lines and Stations

The construction of 1,250 circuit miles of 230-kva lines, necessary to transmit Des Joachims and La Cave power to the Southern Ontario area, is proceeding according to schedule. These lines include a 230-kv line from La Cave to Des Joachims, which will be operated initially at 115-kv to transmit power from Des Joachims through La Cave to Sudbury. About 425 miles of tower line have been erected and 250 route miles of conductor have been strung.

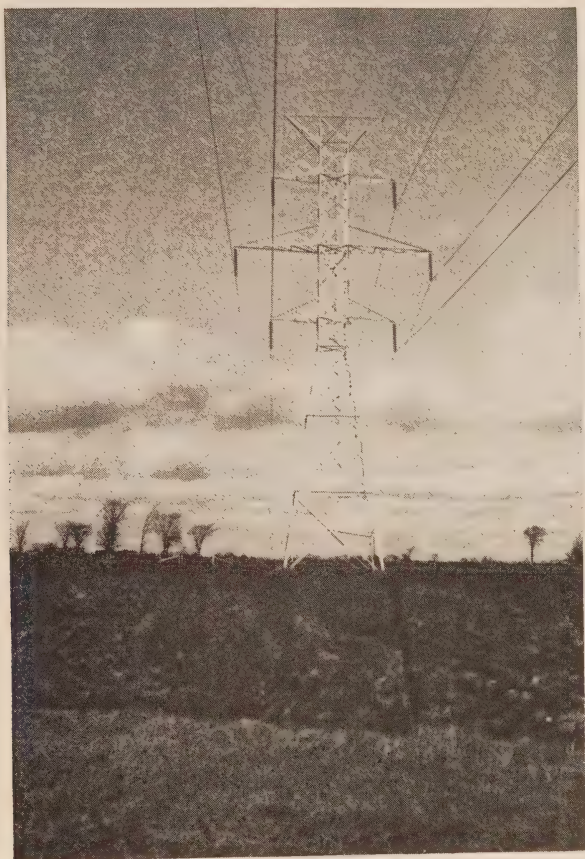
Design work for the Essa transformer station is in progress. This station, situated near Barrie, will supply power from the Des Joachims-La Cave lines to the Georgian Bay division at 115-kv. It is scheduled for service in September 1951.

Construction of a 230-kv switching station at Minden, required for inter-switching the 230-kv circuits, was commenced.

EASTERN ONTARIO AND GEORGIAN BAY AREA

Scarborough Frequency-Changer and Transformer Station

The second 25,000-kva frequency-changer unit was placed in service in May 1949.



**DOUBLE-CIRCUIT, 230,000-VOLT LINE
MINDEN TO RICHVIEW**

The initial installation of 60-cycle transformation at this station was provided in January 1949 by transformers of 6,000-kva capacity at 115/26.4-kv. In October 1949 additional step-down capacity was provided by adding to the 6,000-kva already installed a 14,500-kva, 3-phase, 60-cycle transformer rated at 115/26.4 kv. Both these installations were temporary. In November 1949 the initial 6,000-kva capacity was replaced by a 27,000-kva, 3-phase transformer of the same voltage rating and in December 1949 the 14,500-kva unit was replaced by a second similar 27,000-kva unit. These transformers are required to supply 60-cycle power at 26.4 kv to new industries in East York and Scarborough townships, whose initial power supply is being given at this frequency, and also to provide 60-cycle power to loads in this area converted during the year from 25 to 60 cycles.

Work was begun on the installation of equipment required to receive Chenaux power early in 1951.

Chenaux Lines and Stations

In order to connect the Chenaux generating station to the Southern Ontario 230-kv system, it is necessary to build approximately 28 miles of

230-kv line from Chenaux to a point on the Barrett Chute-Oshawa 230-kv line near Mountain Chute. Also 28 miles of 230-kv line will be built from a point on the Barrett Chute-Oshawa line near Oshawa to Scarborough frequency-changer and transformer station. Survey work on these lines is under way. They are scheduled for service early in 1951.

A 230/115/13.2-kv transformer station at Peterborough is being designed and will supply power from the Chenaux line to the Peterborough area.

New 115-kv Stations and Lines

Eleven new 115-kv transformer stations for the Southern Ontario system were completed or in progress during 1949 as follows:

Transformer station	Capacity kva	Frequency	Transformer station	Capacity kva	Frequency
Cobden.....	3,000	60	London-Nelson...	54,000	60
Kitchener Temporary	8,000	25	Tillsonburg.....	8,000	25
Peterboro.....	30,000	60	Strathroy.....	15,000	60
Toronto-John.....	60,000	25	Seaforth.....	22,400	60
Armitage.....	22,400	60	Windsor.....	54,000	60
Galt.....	16,000	25			

To connect these stations to the 115-kv transmission system will require about 20 miles of new line.

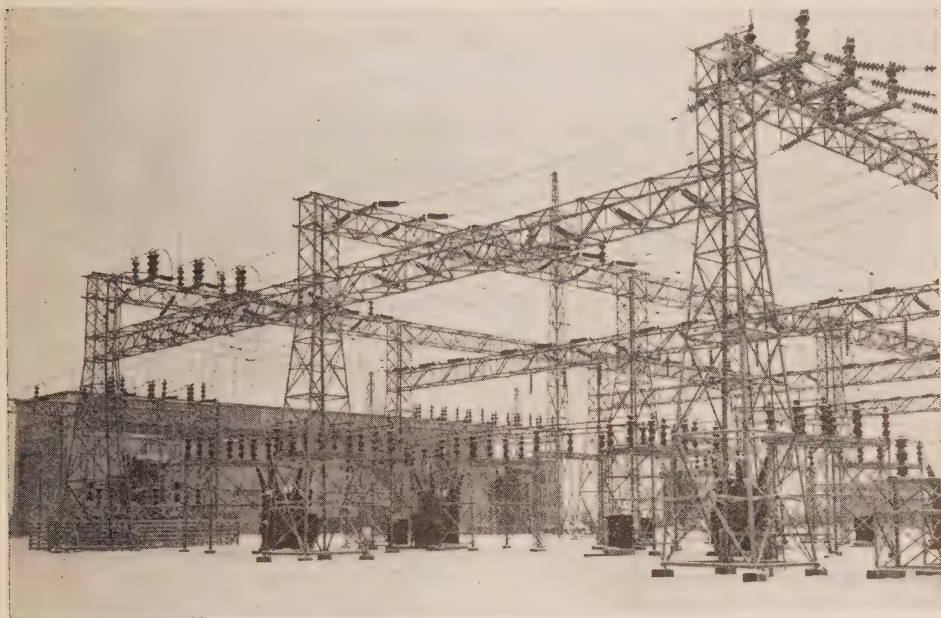
In addition 74 miles of 115-kv line from Barrett Chute generating station to Frontenac transformer station at Kingston and 32 miles of 115-kv line from the new Peterborough transformer station to Oshawa transformer station are under way.

Facilities to Receive Power from Thermal Generating Stations

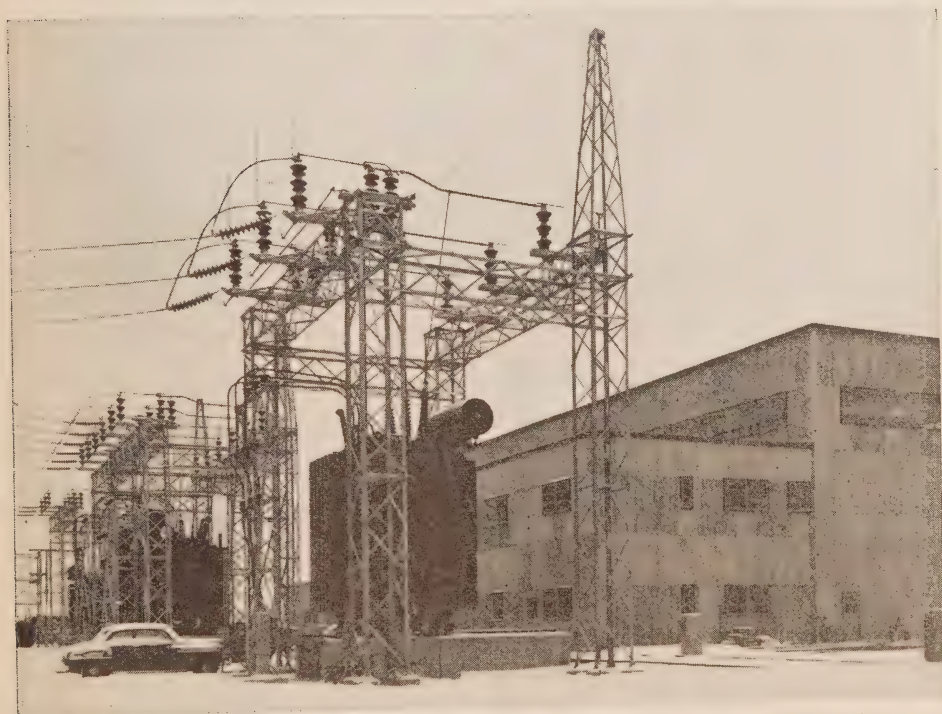
(a) Toronto-Gerrard transformer station at Don valley and Gerrard street, Toronto, was placed in service on November 17, 1949 to supply the initial 60-cycle power to the Toronto Hydro-Electric System at 13.2 kv and to transfer excess 60-cycle power to Scarborough frequency-changer and transformer station. The station comprises four 6,250-kva, 28,400/14,200-volt, 3-phase, 60-cycle transformers and associated equipment and is connected to Scarborough frequency-changer and transformer station by a 26.4-kv, 60-cycle, double-circuit line about nine miles long and to the Scarborough steam generating station by two 13.2-kv, 60-cycle underground cables, each about 2-½ miles in length.

(b) The output of the 60-cycle Hamilton steam generating station, which is of 10,000-kw capacity, is delivered to the Hamilton Hydro-Electric System 13.2-kv line, which connects the steam station to a 25/60-cycle frequency-changer at the Canadian Westinghouse Company plant. By arrangement with the Commission the Canadian Westinghouse Company has installed the frequency-changer several years sooner than would have been required for the Company's purposes.

Planned for January 1950 is a tie between the Hamilton steam plant and the DeCew 60-cycle system at Firestone distributing station, where one



SUDBURY FREQUENCY-CHANGER AND TRANSFORMER STATION
Switching structure for 115,000-volt circuits



SUDBURY FREQUENCY-CHANGER AND TRANSFORMER STATION

Frequency-changer transformers, capacity 25,000 kva and two, 8,000-kva transformers. Facilities of the station include 25,000-kva frequency-changer unit, enabling the Commission to provide a power supply to both the 25 and 60-cycle networks in the Sudbury district and to distribution systems in the Nipissing, Timiskaming and Abitibi districts

12,000-kva, 44/13.2-kv transformer bank will be assigned to 60-cycle service and a temporary 4,500-kva, 44/13.2-kv, 66- $\frac{2}{3}$ -cycle, bank will continue to supply power at 66- $\frac{2}{3}$ cycles for certain Hamilton consumers until their equipment has been converted to 60 cycles.

(c) Power at 66- $\frac{2}{3}$ cycles from the steam generating station at the plant of the Ontario Paper Company at Thorold is transmitted by means of four miles of new 44-kv, two-circuit line to a point on the 44-kv system south of Thorold.

(d) The steam generating station at the plant of the Canada and Dominion Sugar Company at Chatham will be placed in service in February 1950. To connect the station to the 25-cycle system about three-quarters of a mile of 26.4-kv line is under construction.

THUNDER BAY SYSTEM

Pine Portage-Port Arthur Lines and Stations

Surveys were completed for 12 miles of the 115-kv line from Pine Portage to Alexander and about 40 miles of the right-of-way for the new 115-kv line from Alexander to Port Arthur have been cleared. These lines are scheduled for service in 1950.

NORTHERN ONTARIO PROPERTIES

Sudbury Frequency-Changer and Transformer Station

Construction of the Sudbury frequency-changer and transformer station is proceeding according to plan. All major equipment is in place and comprises one 25,000-kva frequency-changer, 25/60-cycle, 13.8-kva; one 25,000-kva, 115/13.8-kv, 60-cycle transformer; one 25,000-kva, 115/13.8-kv, 25-cycle transformer and two 8,000-kva, 115/24-kv, 3-phase, 60-cycle transformers. The two 8,000-kva transformer units were placed in service in September 1949 and will connect the 115-kv system to the Sudbury district 22-kv system. The frequency-changer was placed in service on December 21, 1949.

Tunnel-Sudbury and Associated High-Voltage Lines

The 115-kv, single-circuit transmission line connecting the Tunnel generating station to the Sudbury frequency-changer and transformer station is nearing completion. Of the 132 miles of line, 125 miles of structures have been erected and 99 miles of conductor strung. It is scheduled for service in May 1950.

A new 115-kv line from Coniston to Sudbury frequency-changer and transformer station, a distance of about seven miles, was placed in service in September 1949. This line connects the 115-kv, 60-cycle transmission system from Upper Notch through Crystal Falls to Coniston, to the Tunnel-Sudbury line and, through the Sudbury frequency-changer and transformer station, to the 132-kv, 25-cycle Abitibi Canyon line.

A 115-kv connection from La Cave generating station to Crystal Falls was commenced. Of the total length of 62 miles about 17 miles of structures have been erected. This line is due for service in July 1950.



FREQUENCY CHANGE-OVER OF A NORTHERN ONTARIO PLANT
Rebuilding the rotor of a large hydro-electric generating unit to convert the unit from 25 to 60-cycle operation

Other Projects

In connection with the expansion program at present being carried on, a large number of other projects were completed or under construction in 1949. In Appendix III to this report many of these are listed and briefly described.

Appendix III also contains tabulations showing:

Change in transformer capacity during the year ended October 31, 1949.

Transmission line changes and additions made during the year ended October 31, 1949.

A section relating to Communications—all systems dealing with telephone, power line carrier, telemetering circuits and radio facilities.

TOTAL MILEAGE OF TRANSMISSION LINES AND CIRCUITS

System and voltage	Kind of structures	Line route or structure miles			Circuit miles
		Total to Oct. 31, 1948	Additions 1949	Total to Oct. 31 1949	Total to Oct. 31 1949
SOUTHERN ONTARIO SYSTEM					
Niagara division					
230,000-volt.....	steel	1,025.12	351.64	1,376.76	1,425.57
115,000-volt.....	"	860.95	3.04*	857.91	1,444.62
115,000-volt.....	wood	191.03	....	191.03	192.86
60,000-volt.....	steel	20.00	....	20.00	21.13
60,000-volt.....	wood	0.25	....	0.25	0.25
26,400-volt.....	"	1,071.86	112.25	1,184.11	1,358.66
13,200-volt.....	"	230.78	3.97*	226.81	290.44
13,200-volt.....	steel	0.82	....	0.82	1.64
12,000-volt.....	wood	77.37	....	77.37	101.16
Dominion Power district 44,000-volt.....	steel	93.99	....	93.99	132.34
Dominion Power district 44,000-volt.....	wood	48.35	....	48.35	58.93
Dominion Power district 22,000-volt.....	"	28.02	....	28.02	28.02
Dominion Power district 10,000-volt.....	"	14.40	....	14.40	14.40
Georgian Bay division					
115,000-volt.....	steel	49.68	....	49.68	49.68
115,000-volt.....	wood	88.82	....	88.82	88.82
Bala district 44,000-volt.....	"	64.44	0.44	64.88	64.88
Eugenia district 44,000-volt.....	"	308.40	0.27	308.67	375.12
Muskoka district 44,000-volt and less.....	"	39.16	17.16	56.32	56.32
Severn district 44,000-volt and less.....	"	257.09	5.55	262.64	319.60
Wasdell district 44,000-volt and less.....	"	91.03	0.83	91.86	92.37
Eastern Ontario division					
115,000-volt.....	steel	395.70	2.82	398.52	409.90
115,000-volt.....	wood	369.21	13.73*	355.48	357.30
44,000-volt.....	"	24.33	....	24.33	24.33
33,000-volt.....	"	42.80	....	42.80	48.48
Central district 44,000-volt and less.....	"	600.37	24.83	625.20	662.48
St. Lawrence district 44,000-volt.....	"	144.05	0.30	144.35	144.73
Rideau district 26,400-volt.....	"	62.48	....	62.48	62.48
Madawaska district 33,000-volt.....	"	55.29	....	55.29	55.29
THUNDER BAY SYSTEM					
115,000-volt.....	steel	147.28	....	147.28	230.89
115,000-volt.....	wood	178.83	....	178.83	178.83
44,000-volt.....	"	127.96	0.04	128.00	128.00
22,000-volt.....	*	8.54	40.34	48.88	87.11
12,000-volt.....	"	1.45	1.45*	....	....
NORTHERN ONTARIO PROPERTIES					
Abitibi district 132,000-volt.....	steel	382.77	....	382.77	765.54
Abitibi district 132,000-volt.....	wood	189.83	6.26	196.09	196.09
Abitibi district 26,400-volt.....	"	190.08	1.97	192.05	192.71
Abitibi district 13,200-volt.....	"	20.30	1.41	21.71	22.31
Timiskaming district 115,000-volt.....	steel	58.90	....	58.90	117.80
Timiskaming district 115,000-volt.....	wood	74.56	28.21*	46.35	46.35
Timiskaming district 44,000-volt.....	"	244.14	45.55	289.69	289.69
Timiskaming district 12,000 & 11,000-volt.....	"	105.22	0.48	105.70	170.42
Sudbury district 115,000-volt.....	steel	....	6.70	6.70	6.70
Sudbury district 115,000-volt.....	wood	46.23	....	46.23	46.23
Sudbury district 22,000-volt.....	"	78.37	12.75	91.12	91.33
Nipissing district 22,000-volt.....	"	63.16	38.39	101.55	118.43
Manitoulin district 44,000-volt.....	"	....	15.85	15.85	15.85
Rainy River district 115,000-volt.....	"	119.81	....	119.81	119.81
Patricia district 69,000-volt.....	"	203.72	....	203.72	203.72
Patricia district 44,000-volt.....	"	247.57	23.60	271.17	271.17
Patricia district 22,000-volt.....	"	33.51	....	33.51	33.64
Totals.....		8,778.02	659.03†	9,437.05	11,214.42

*Removals.

†Net increase.

NOTE: Circuit miles of 230,000-volt line in the province of Quebec connected to H-E.P.C. lines = 103.45. Total 230,000-volt system interconnected circuit miles = 1,529.02.

DISTRIBUTION LINES AND SYSTEMS
IN RURAL OPERATING AREAS

The following summary shows the mileage of distribution lines constructed by the Commission in rural operating areas, and the number of consumers served.

The summary indicates a total net increase in construction during the year of 4,738 miles of new primary line constructed, giving service to 35,206 additional consumers.

SUMMARY OF CONSTRUCTION IN RURAL OPERATING AREAS

System and division or district	At October 31, 1948		At October 31, 1949					
	Miles of primary line con- structed	Number of con- sumers re- ceiving service	Miles of primary line			Number of consumers		
			Con- structed	Under con- struc- tion or author- ized	Total	Re- ceiv- ing ser- vice	Au- thor- ized	Total
SOUTHERN ONTARIO SYSTEM								
Niagara division.....	14,234	126,831	15,182	245	15,427	138,461	868	139,329
Georgian Bay division..	4,949	35,618	6,208	121	6,329	44,417	880	45,297
Eastern Ontario division.....	6,971	48,228	8,546	226	8,772	58,399	2,139	60,538
THUNDER BAY SYSTEM	416	2,134	585	17	602	2,939	188	3,127
NORTHERN ONTARIO PROPERTIES								
Abitibi district.....	125	573	173	10	183	1,107	66	1,173
Timiskaming district..	31	67	160	80	240	480	662	1,142
Sudbury district.....	139	2,908	335	102	437	3,864	1,053	4,917
Nipissing district.....	141	1,760	235	52	287	2,615	307	2,922
Manitoulin district...	226	1,566	267	90	357	1,833	239	2,072
Rainy River district..	71	404	164	68	232	537	383	920
Smooth Rock area....	18	....	119	2	121	643	327	970
Patricia district.....	....	....	85	55	140	....	452	452
Totals.....	27,321	220,089	32,059	1,068	33,127	255,295	7,564	262,859

SECTION VII

RESEARCH, TESTING AND APPROVALS ACTIVITIES

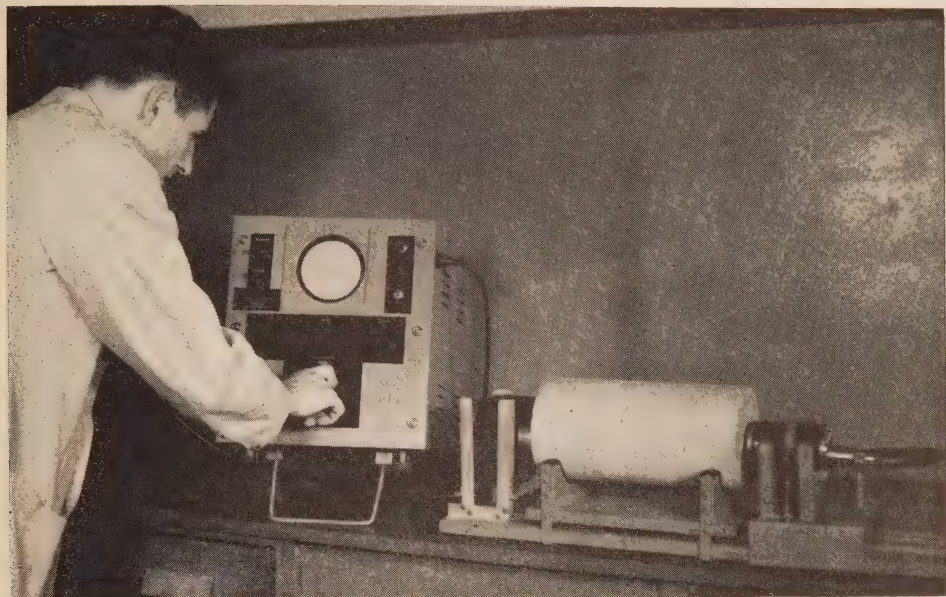
**Research Activities Improve Operational and Maintenance Methods
and Increase Efficiency—Testing and Approvals Maintain
High Standards—All Consumers Enjoy Resulting
Benefits**

THE VOLUME of research and testing handled by the Research division continued to increase in keeping with the general growth of the Commission. The contributions made by research activities to the efficiency of all technical phases of the Commission's operations are being more fully recognized, as their ultimate benefits to power consumers become apparent. An average of some 750 written and oral requests per month were received for information, consultations, and the undertaking of investigations. The four departments of the Division, namely, electrical, structural, chemical, and concrete control, served vital functions in their respective fields.

In the electrical field there were further developments of methods and apparatus for detecting deteriorated transmission line joints, locating power and communication line faults, non-destructively examining the interior of concrete structures for cracks and deterioration, and indicating the temperature of inaccessible current-carrying parts in transformers, cables and rotating machines.

Studies basically of structural significance included a detailed investigation of fly-ash, both as a partial replacement for cement and as a by-product of coal-fired steam generating plants; continued measurement of temperature conditions within mass concrete, and provision for such measurements in dams under construction; a further development of steel sleeves for compression joints, and of dead-end assemblies; and a comparison of filters for the cooling air of frequency changers.

Progress in chemical fields to further the Commission's operations included new advances in the application of copper pentachlorophenate as a wood preservative; a general adoption, based on field tests, of sprays of herbicidal chemicals to control right-of-way brush and stump regrowth; a successful campaign to reduce the blackfly menace in the community at a northern generating station; and the extension of a program of periodic



SONISCOPE TESTING A SPECIMEN OF CONCRETE

checking of the condition of the electrical insulating oil in the major equipment throughout the Commission.

In addition to supervising the preparation and placement of all concrete used, the concrete control department added to its knowledge of concrete through studies of such questions as the minimum protection needed by fresh concrete during freezing weather, and the loss of artificially entrained air during the handling of concrete prior to its placement.

Some phases of the Division's work were furthered through the close co-operation maintained with various other organizations interested and engaged in research and testing. As an example, some tests were conducted for the Commission with special equipment in laboratories of such bodies as the University of Toronto and the National Research Council, and with the assistance of staff members of these organizations.

Co-operative research programs on problems of mutual interest, such as conductor vibration, deterioration of insulating oil in service, and applications of electricity in agriculture, were continued in conjunction with other organizations.

In its Approvals Laboratory, the Division, as the testing agency for the Canadian Standards Association, continued the testing of electrical equipment and appliances. Products which did not conform to specified standards of safety were thus prevented from reaching the consumer. Early in 1948 the Commission requested the Canadian Standards Association to assume full responsibility for this activity and to take over the staff engaged in this work. The negotiations connected with this transfer are nearing completion, and it is expected that the Canadian Standards Association will assume full responsibility for approvals testing, including the complete operation of the Approvals Laboratory, during the summer of 1950.

Research and Special Testing

Some forty research project panels now give direction to the Division's major investigations. Each concentrates its effort on problems in a particular field significant to the Commission's operations. Its membership is made up of engineers and technical men with specialized knowledge and experience, and who represent all divisions concerned with the specific problems assigned to the panel. The more extensive panel activities during 1949 are briefly summarized below:

Utilization of Electricity

Further improvements were made to parts of the Hydro water heater, several being covered by revised specifications. The thermal insulating qualities were determined of glass fibre, asbestos, and felt prefabricated covers for hot water tanks. The results prompted the Commission to put into effect a regulation requiring all further water-heater installations to be insulated with a minimum thickness of one inch of glass fibre or its equivalent.

An experimental heat pump installed at a transformer station, and utilizing a portion of the transformer cooling water, demonstrated the practicability of this application of the heat pump for winter heating and summer cooling of the control room. Studies are being continued of the applicability of the heat pump principle, in conjunction with earth coils, to house heating and cooling in the Toronto area.

Lighting

Work on methods and equipment to promote effective lighting included the design and construction of a self-contained portable reflectometer for accurate field measurement of reflective factors; the initiation of tests to determine the depreciation in light output during life of reflector and cold cathode fluorescent lamps; and a detailed appraisal of existing lighting in the control rooms of certain generating and transformer stations, to aid in the design of lighting installations for new structures. A summarizing report on bactericidal lamps was prepared, and included detailed information on their use for treatment of air, as a barrier to air-borne bacteria, and for sanitary storage.

Lightning Protection

Laboratory and field studies of lightning were continued to help establish the optimum ways of protecting all classes of electrical equipment from lightning damage. The Division's surge-testing equipment was used for many purposes, such as to obtain the impulse characteristics of several makes of valve-type distribution arresters; to study the causes of excessive distribution fuse blowing; and to conduct impulse flashover tests on insulators, transformers, and switchgear. Field work included the inception of a survey of the frequency of operation of the 110-kv arresters in the Southern Ontario system; continued recording of surge voltages and currents at two transformer stations, and at isolating transformers at several generating stations; and the installing at two transformer stations of electronic stroke-component counters developed by the Division.

Fault Location by Linascopes

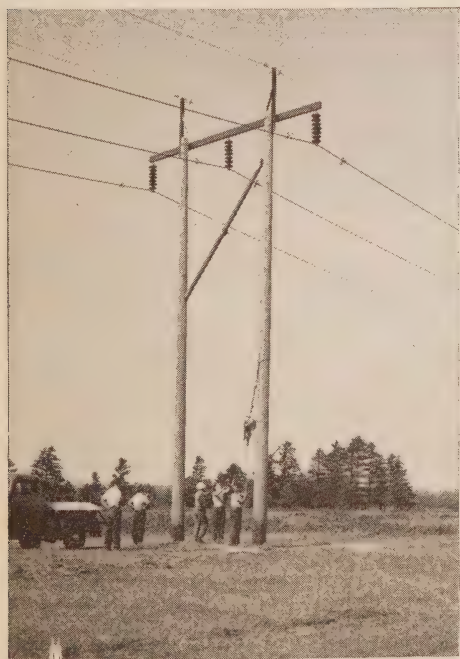
Portable linascopes developed and built by the Division for locating sustained faults on long open-wire power and telephone lines are in use at six stations and have already successfully located a wide variety of faults. Development has continued to improve the performance of a linascope installed at Leaside transformer station for recording automatically the location of both sustained and transient faults within 150 miles on any of the four 220-kv circuits. An experimental unit also employing the echo-ranging principle, was built for locating faults in telephone and power cables.

Grounding Improvement

The method devised for power-driving long rods into underlying strata to improve both transmission and distribution grounding in some areas continued to prove advantageous, and assistance was given in the development of a simplified assembly comprising an end-tapered rod, tapered coupling, and hardened steel tip. In addition, the Division advised on methods of grounding construction power systems and assisted in determining satisfactory procedures for securing permanent station grounds.

Joints and Connections

Since joints and connections of unquestioned quality in electrical conductors are so vital to the Commission's operations, tests under both accelerated and long outdoor exposure are continually in progress on such items as compression joints, twisted sleeve joints, and live-line clamps. Application of the results of these tests is producing better and a smaller variety of clamps to serve the Commission's needs.



GROUNDING WITH LONG RODS

Left: Gasoline hammer suspended from pole
Right: Tripod in use away from structure

The bolometer developed to detect overheated joints in older transmission lines was further refined. It was used with marked success and substantial savings in several applications, particularly to survey all the joints in a double-circuit 110-kv transmission line more than 100 miles in length.

Line Materials

Studies were directed toward developing more efficient line hardware and methods of employing it; extensive comparative tests were made of various different products. The electrical power losses in a new line of non-ferrous suspension clamps and vibration dampers were measured; if their mechanical strength proves to be adequate, the results suggest the advisability of their use on new 60-cycle transmission lines.

Distribution Equipment

Plans were made for comparative testing of several makes of automatic circuit reclosers which, if properly co-ordinated with line-sectionalizing fuses, can reduce both the service interruptions caused by non-persistent faults and the associated maintenance charges. To facilitate checking the peak demand of rural consumers, a simple, inexpensive, three-wire registering thermal ammeter was designed and built, and showed promise in laboratory tests.

Solid Electrical Insulants

The quality of insulating materials such as friction tapes and rubber splicing compounds from various manufacturers, was checked against recognized specifications. The considerable variations found will be significant to the Commission in purchasing large supplies of these materials. To facilitate this work, training of a staff to conduct the tests according to established standard procedures was continued.

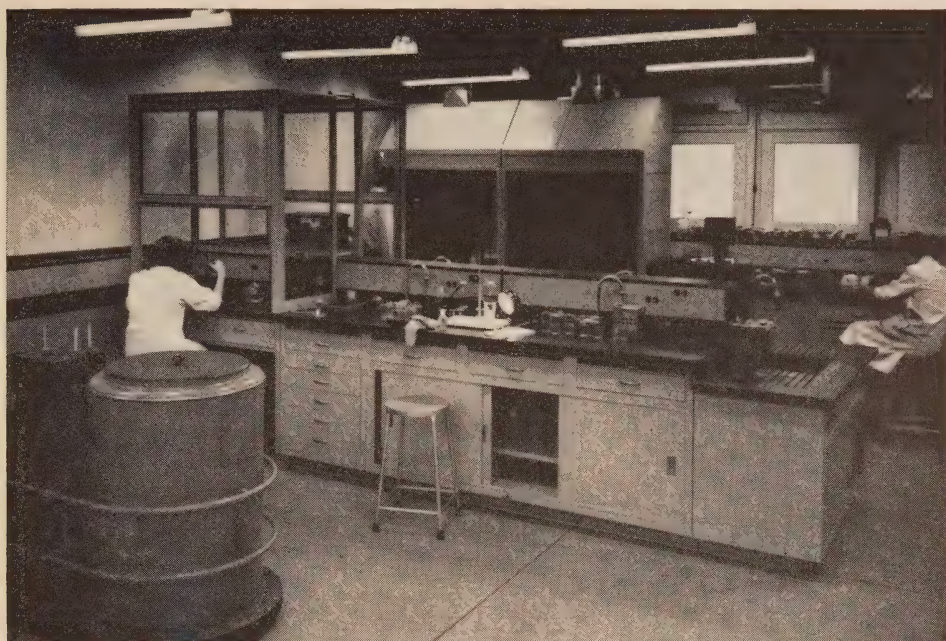
Many new insulating materials, particularly some of the plastics, required special testing techniques. Tapes, sheet insulation, insulated wires and cables, and varnishes were some of the newer products investigated.

Liquid Electrical Insulants

The completion of a special laboratory for petroleum products facilitated work on liquid electrical insulants. This laboratory is used mainly for the constant testing of insulating oil from the Commission's major power equipment. Other activities included participation in a co-operative long-time service sludge-testing program, and in a sponsored investigation of methods of test and specifications for electrical insulating varnishes. Also, detailed preparations were made for a survey of available insulating varnishes, and initial tests were begun.

Electrical Power Equipment and Its Protection

Studies to increase operating efficiency and to minimize interruptions of primary supplies were conducted on numerous items of major equipment. Included were tests of the temperature rise of frequency changers to determine the overload tolerable without damage, and studies of the starting requirements of 60-cycle hydrogen-cooled condensers. Two sets of tests were made in the Northwestern region of the operation of the single-pole reclosing



CORNER OF NEWLY INSTALLED PETROLEUM PRODUCTS TESTING LABORATORY

circuit breakers and associated controls, and valuable data were obtained toward maintaining system stability. Special cameras with continuously moving film were developed for the tests. Other work related to the forced cooling of power cables to increase their current-carrying capacity, and to the thermal resistivity of the soil along a proposed cable route.

In a continuing study of means of protecting major power equipment against overheating from electrical overload, the superiority of the rise-simulator type of hot-spot indicator as developed within the Commission was confirmed, and its use with future power transformers approved. A sensitive recording anemometer was developed for use in studies of ways of controlling the fans on air-cooled transformers, and various modifications found other applications. Included with other significant progress was the adaptation of electronic self-balancing potentiometers to measure thermocouple temperatures.

Frequency Standardization Tests

Methods of conversion of numerous items of 25-cycle equipment for 60-cycle operation were investigated as a service for the Frequency Standardization division, and some of the electrical apparatus needed for the frequency standardization program was tested to determine its adequacy for the usage intended.

The suitability of several types of small frequency-changers for operating both domestic and commercial equipment, was investigated. One type of motor-generator set, and a "chopper-type" frequency-changer developed by engineers of the Commission operated satisfactorily.

Work Pertaining to Concrete

Extensive laboratory and field tests relating to concrete and its constituents were continued with the primary purpose of ensuring durability of concrete structures. As an important aid in such studies, the ultrasonic apparatus known as the sonoscope was further developed and its operation greatly simplified. Along with its use on laboratory test specimens, its ability to locate and evaluate deterioration as well as cracking of concrete structures was utilized extensively in the field.

Masonry Construction

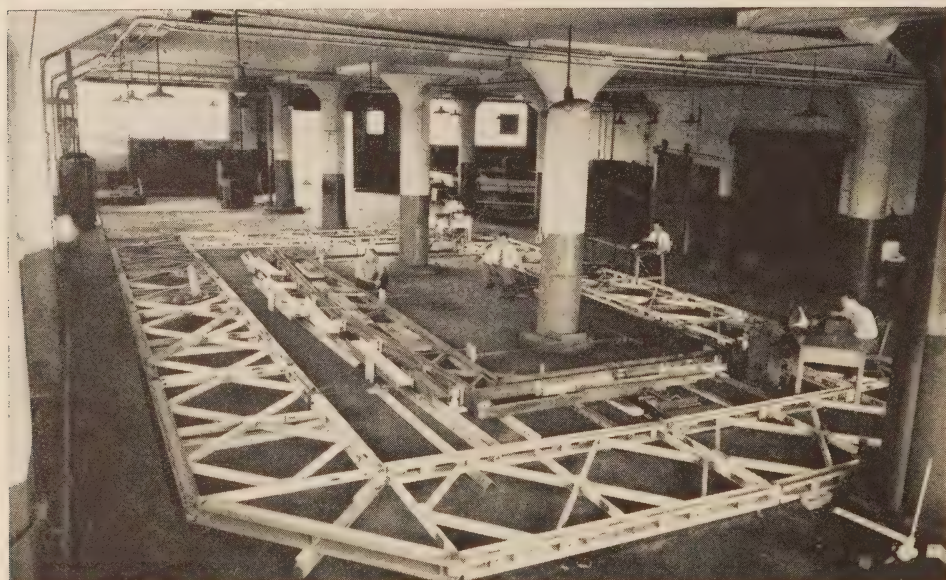
Owing to their increased use, precast masonry slabs were studied in detail. This work embraced methods of fabrication, including steam curing and handling, as well as physical requirements.

Soil Mechanics

The work in soil mechanics continued to relate largely to foundation investigations, including loading tests, field sampling, and laboratory testing of soils to determine their bearing capacity. Soil surveys also were made to locate suitable sources of materials for various earth structures.

Miscellaneous Structural Testing

Continued application of the Bailey bridge type construction in buildings, form cages, conveyors, and so forth necessitated considerable structural testing of special fittings and standard components.



LOAD TESTS OF 30-FOOT LIGHT GAUGE STEEL BENT



STATION STRUCTURE UNDERGOING HORIZONTAL
LOADING TEST

Corrosion of Metals

In an investigation of the value of magnesium anodes to inhibit corrosion and prolong tank life, a group of automatic electric storage water heaters is being operated continuously on a cycle typical of domestic usage. Complete examinations of the tank interiors are being made semi-annually. The group, including unprotected controls, now comprises black iron and galvanized iron tanks, a black iron tank with the interior painted, an aluminum tank and a glass-lined tank.

A study was made of the probable effect of saline ground water on the corrosion of steel piles at the site of a steam generating station.

Stress Measurement and Analysis

Measurement of stresses in various structures and equipment of the Commission continued to yield information of value to designers. The pressure exerted on forms by freshly placed concrete was determined at two developments, and further laboratory measurements under more closely controlled conditions were planned. Preparations were made to measure ice pressures on the dam at another development, by means of equipment installed during construction. Surge pressures and strains in a conduit and

surge tank were determined by means of special gauges. The maximum hydraulic thrust of a generator unit was measured by means of strain gauges inserted in cells which were incorporated in the thrust-bearing jack screws. General strain measurement work was facilitated by the acquisition of a two-channel direct-writing oscillograph, with the necessary associated equipment.

Vibration of Transmission Lines

A five-span test line was built and fitted with wooden D-sections to induce galloping under suitable wind conditions. In addition to visual observations, instruments are being installed to provide records of several variables and contributing factors. A small wind tunnel was constructed for related laboratory studies. An investigation of the mechanical features relating to the use of dual conductors on transmission lines was initiated, including two test lines each equipped with two conductors spaced 18 inches apart.

Wood Preservation

Progress in the study of wood preservation included a pilot plant treatment of jack pine pole stubs with copper pentachlorophenate, and continuing laboratory tests of this preservative. The electrical conductivity of both treated and untreated wood poles, and of small specimens of poles species under controlled humidity conditions, was investigated, and the necessity of present safe handling regulations for wood poles near live circuits was confirmed. Examinations were made of the service effectiveness of various ground-line diffusion treatments of poles; of pole stubs exposed in test beds after various treatments; and some poles removed after long service.

Brush and Weed Control and Soil Sterilization

With a continuing program of field tests conducted by the Division as the basis, herbicidal chemicals are being used to control woody regrowth along right-of-way, and to eliminate unwanted vegetation from areas adjoining power stations, transformer yards, and other structures. Several hundred acres of right-of-way were experimentally sprayed with herbicidal chemicals, under the supervision of regional superintendents of the Forestry section. The spraying of freshly made stumps with 2, 4-D solutions to prevent their resprouting became an established routine in the Commission, and a limited amount of sterilization of areas covered with crushed stone was carried out, testing various toxic inorganic chemicals.

Insect Control

Information was prepared and distributed to the Commission's staff concerned, giving the life cycles of such insect pests as blackflies, mosquitoes, and house flies, and detailing control materials, handling precautions, dosages, methods, and equipment. Efforts based on the Division's recommended procedures were made to control the blackfly nuisance at one of the Commission's northern communities, with encouraging results.

Plastics

The ever-increasing number and usage of plastics necessitated a continuing evaluation of all new plastic materials for their economic applicability throughout the Commission, and much information was made available on their significant properties.

Thermal Insulation

With the growing usage of thermal insulating materials and the variety of new types appearing, available products were catalogued and several were tested.

Industrial Water Treatment

Most of the work on water treatment related to the supply of boiler water for both recent small steam generating plants and large plants under construction. In addition, a service test was begun of a type of scale-preventive treatment of transformer cooling ponds, and numerous tests were made of water supplies for various domestic uses and of water softeners.

Miscellaneous Investigations

Among numerous other research projects dealt with by the Division, some of which are continuing for several years, are included the development and checking of methods for testing the electrical insulation of power apparatus; the continual development and improvement of equipment for making accurate electrical, physical, and chemical measurements; studies to reduce the level of noise and vibration in some of the Commission's buildings; problems associated with welding and the evaluation of weld quality; investigations of special uses of lubricants, as for example, in the pulling and protection of lead-sheathed cable; and studies of the properties and applications of protective materials such as fire-retardant paints.

General Tests and Analyses

In addition to their contribution to specific research, standard tests and analyses varying widely in complexity and work entailed, are continually conducted as a service to all phases of the Commission's technical functions. This part of the Division's activities in 1949 occupied about 60 per cent of the staff's time, and involved altogether almost a hundred thousand test samples and specimens.

The Division also was frequently called upon by outside organizations for such purposes as testing, calibrating, and checking. These organizations, not suitably equipped for testing, but generally playing some part in the Commission's operations, engaged the necessary staff and facilities of the Division. Testing for the Department of National Defence also required the time of several members of the staff.

SECTION VIII

PERSONNEL ADMINISTRATION

Employment at Highest Level—Accident Prevention Most Successful—The Year's Activities

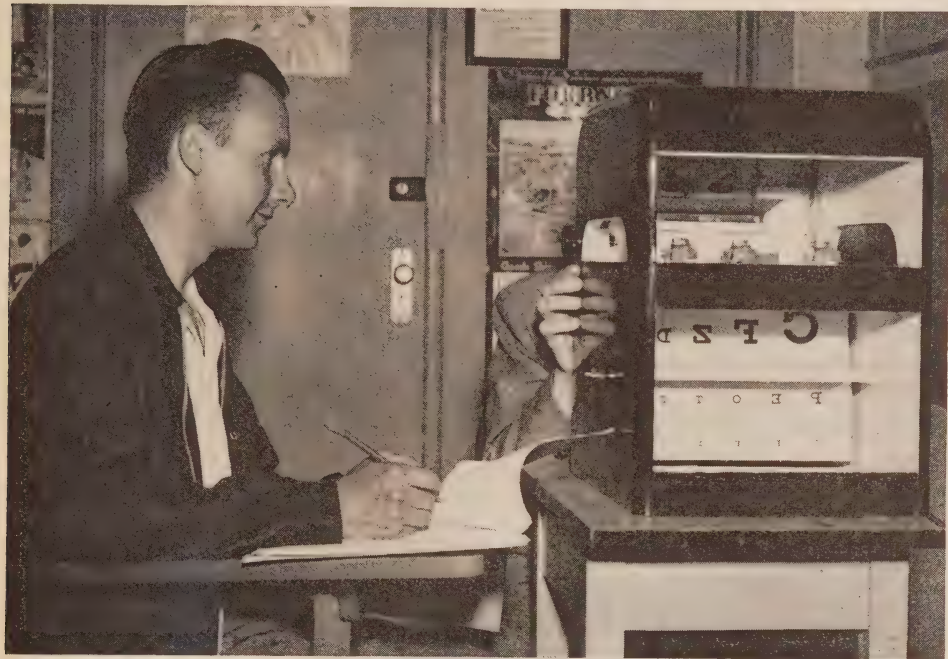
A REVIEW of some of the activities of the Personnel branch of the Commission during 1949, together with a word about their significance for the future, may be of help to the municipal authorities and of interest to the general public.

During 1949 employment in connection with administration, operation, engineering and construction work, reached the highest level in the history of the Commission. The total number on the payroll exceeded 20,000 in May and reached a maximum of 22,889 in August. These totals do not include the staff employed by contractors for construction of certain projects and on temporary construction. The increase is largely due to the construction program in progress, but the regular staff included in these figures increased by 2,185 during the year and reached a total of 8,231 in October. In spite of this rapid growth each applicant for employment by the Commission was carefully selected, not only to ensure the necessary qualifications for initial employment but also with a view to his future development and job satisfaction.

The Commission maintains collective agreements with two groups of non-supervisory employees; the Employees' Association, which includes technicians, clerks, trade workers, operators, etc., and the Federation of Employee Professional Engineers and Assistants, which embraces those engaged in professional engineering work. There is provision for the orderly handling of grievances and although recourse may be had to arbitration it is significant that this has never been invoked.

A completely revised pension plan became effective on November 1, 1948, superseding the previous plan which had been in force since 1923. It embodies modern developments in retirement plans and provides substantially increased benefits.

The medical officers and nurses at Head Office were available for consultation and made periodic visits to the regions. Fully staffed hospitals



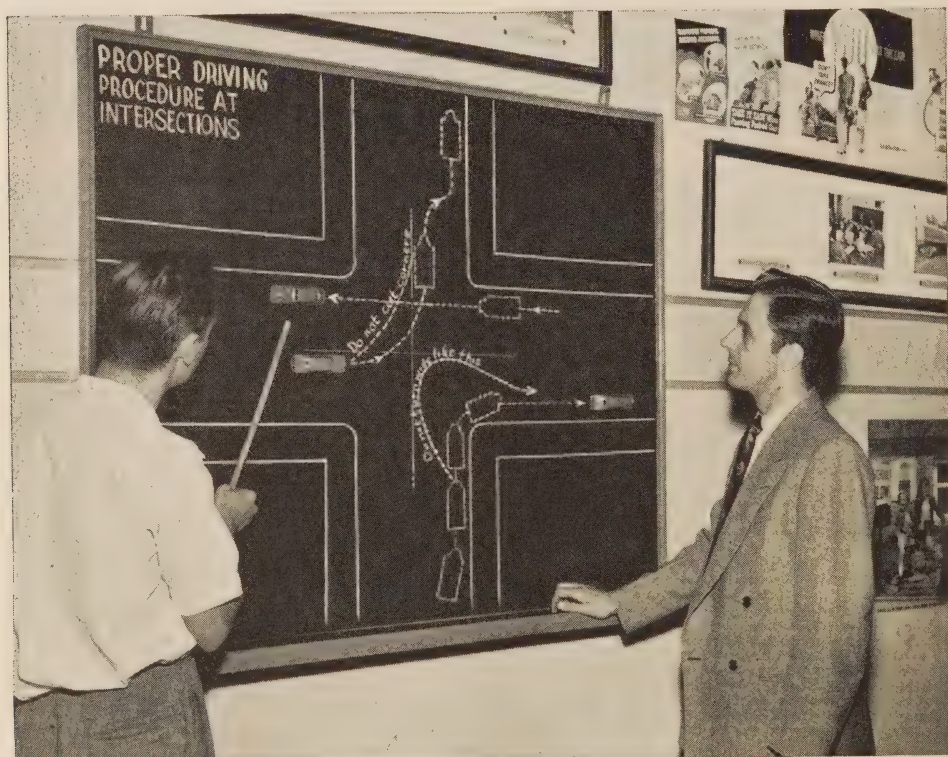
MOTOR VEHICLE DRIVING TRAINING

Psycho-physical testing of drivers forms part of the Commission's program of driving instruction. The above pictures show a driver being tested for his judgment of distance and for his speed of reaction

were maintained at two major developments while first-aid posts were provided at the other large camps.

The importance of maintaining safe working conditions was constantly stressed, to develop a sense of safety consciousness in the minds of all employees. Staff trained in modern safety practices functioned in the larger construction camps and the result has been a marked reduction in the frequency of accidents.

Training was continued throughout the year and the facilities of the Toronto training centre were taxed to capacity. Emphasis centred largely on linemen and foresters and during the year 260 employees completed various forms of training which brought the total to 1,024 since the school was opened in the fall of 1945.



MOTOR VEHICLE DRIVING TRAINING

The driver is given instruction in correct traffic procedure

SECTION IX

FINANCIAL STATEMENTS

Relating to

Properties Operated by The Hydro-Electric Power Commission on
Behalf of Co-operating Municipalities of the Southern Ontario
System and the Thunder Bay System,

and to

Northern Ontario Properties Held and Operated by the Commission
in Trust for the Province of Ontario

IN this section of the Report financial statements relating to the activities of The Hydro-Electric Power Commission, segregated into certain distinct divisions, are presented. The first division relates to those activities on behalf of the co-operative municipalities, which are partners in the main Hydro undertaking comprising the Southern Ontario system the Thunder Bay system, and Rural Power districts associated with these two systems. The second relates to the administration of the Northern Ontario Properties which are held and operated by the Commission in trust for the Province of Ontario.

Co-operative Systems

In the Foreword to this Report a brief reference is made to the basic principle governing the operations of the Hydro undertaking in supplying electrical service at cost, and to the wholesale and retail aspects of the work. A description is also given of the systems into which the partner municipalities are co-ordinated for securing common action with respect to power supplies, through the medium of The Hydro-Electric Power Commission of Ontario which, under The Power Commission Act, functions as their Trustee.

Although for the purpose of financial administration the Southern Ontario and Thunder Bay systems are separate units, there is a similarity of procedure with respect to their operation which enables certain financial statements, as for example the various reserves, to be co-ordinated and presented in summary tables.

The first set of tables in Section IX gives collective results for the co-operative activities related to the two systems. These tables include a **balance sheet; a statement of operations** as detailed in the "cost of power" tables referred to below; schedules respecting **fixed assets, capital expenditures and grants—rural power districts, account with the Provincial Treasurer of the Province of Ontario, funded debt, power accounts receivable, depreciation reserves, contingencies and obsolescence reserves, frequency standardization reserve, stabilization of rates reserves and sinking fund reserves.**

The tables which follow these general financial statements relate more particularly to the individual municipality's aspects of the wholesale activities of the Commission and for each system show the **cost of power** to the individual municipal utilities, a **credit or debit** adjustment summary, and the **sinking fund** equity that has been acquired by the individual municipality. There is also included for each system a **rural operating** statement.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. In general each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use,* together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The annual expenses and the appropriations for reserves are provided out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,† when the Commission's books are closed and the actual cost payable by each municipality for power taken has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such current expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for depreciation, and for contingencies and obsolescence. The first-mentioned reserve, namely, sinking fund, is being created on a 40-year basis for the purpose of liquidating

*Subject to maximum rate; see footnote on page 140.

†The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities however, ends on December 31, and the municipal accounts are made up to this date, and are so recorded in Section X.

capital liabilities. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of The Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

Tabular Data

The following comments relate to the tabular data presented:

Balance Sheet.—The first tabular statement given in Section IX is a balance sheet showing the assets, and the liabilities and reserves of the co-operative systems.

Statement of Operations.—This statement is a summary of operating expenses and fixed charges as shown in the “cost of power” tables and rural operating statements relating to the individual systems as referred to more particularly below.

Fixed Assets.—Details are given concerning the various fixed assets of each system and of the miscellaneous properties, showing in separate classifications the values of plant under construction and in service, depreciable and non-depreciable. This is supplemented by a statement showing expenditures, adjustments and retirements occurring during the year.

Capital Expenditures and Grants—Rural Power Districts.—This schedule gives summary information respecting the total capital expenditures on rural power districts and grants-in-aid of construction paid or payable by the Province with respect to such rural districts.

Account with the Provincial Treasurer.—This schedule lists, both for the systems operated on a cost basis and for the Northern Ontario Properties which are held and operated by the Commission in trust for the Province, the advances from the Province of Ontario and the repayments which have been applied to reduce this liability. It should be noted that Provincial advances to finance Northern Ontario Properties are shown in memorandum form only on the balance sheet of the Commission as the direct liability is carried on the Northern Ontario Properties’ balance sheet.

Funded Debt Issued.—This schedule presents a complete list of the outstanding securities issued by the Commission on account of the systems and the Northern Ontario Properties. It should be

noted that securities issued to finance Northern Ontario Properties are shown only in memorandum form on the balance sheet of the Commission, while the direct liability is shown on the balance sheet of the Northern Ontario Properties.

Power Accounts Receivable.—This schedule sets forth the amounts collectable from all classes of power consumers and includes the annual adjustment figures from the “credit or charge” statements for municipalities. The amounts of debit balances three months or more overdue are stated.

**Depreciation Reserves,
Contingencies and Obsolescence Reserves,
Frequency Standardization Reserve, and
Stabilization of Rates Reserves.**

These schedules show the provisions made to, the expenditures from, and the balance to the credit of, these reserves for each of the systems and other properties included in the power undertakings operated on a cost basis.

Sinking Fund Reserves.—This schedule summarizes the appropriations of principal and interest with respect to these reserves for each of the systems and certain other properties.

Following these statements, which combine data for all systems, there are given for each of the co-operative systems four tabular statements as follows:

Cost of Power statement, which shows the apportionment to each municipality of the items of cost summarized in Statement of Operations, as well as the apportionment of fixed assets in service listed in the balance sheet and the amount of power taken by each municipality. It should be noted that the cost of power given in this table is the wholesale cost—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility. In the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement “B” of Section X as cost of power supplied by H-E.P.C.

Credit or Charge summary statement, which shows the adjustments made in order to bring the amounts paid by the municipal electric utilities to the actual cost of service.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality as part of the cost of power together with its proportionate share of other sinking funds.

Rural Operating statement, which summarizes for the rural power district of the system the various items of cost, and the revenues received, in connection with the distribution of electrical energy to rural consumers.

Northern Ontario Properties

The statements and schedules respecting these properties which are held and operated by the Commission in trust for the Province of Ontario include the balance sheet, operating account, schedules of fixed assets, depreciation reserve, contingencies and obsolescence reserve, and sinking fund reserve. These schedules are similar in form to the corresponding schedules relating to the co-operative systems.

Municipal Utilities

All municipal Hydro utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserves to protect generating, transforming and transmission systems, the municipalities are taking similar action with respect to their local Hydro utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

Auditing of Accounts

The accounts of The Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and The Public Utilities Act requires that they shall be audited by the auditors of the municipal corporation.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO**FINANCIAL ACCOUNTS**

For the year ended October 31, 1949

**Relating to Properties operated on a "Cost Basis" for the Co-operating
Municipalities and Rural Power Districts which are supplied with
Electrical Power and Services from the following Properties:**

Southern Ontario System

Thunder Bay System

Service and Administrative Buildings and Equipment

STATEMENTS

Balance Sheet as at October 31, 1949

**Statement of Operations and Cost of Power for the year ended
October 31, 1949**

Schedules supporting the Balance Sheet as at October 31, 1949:

Fixed Assets—By Systems and Properties

Fixed Assets—Changes During Year

Capital Expenditures and Grants—Rural Power Districts

Account with the Provincial Treasurer of the Province of Ontario

Funded Debt

Power Accounts Receivable

Depreciation Reserves

Contingencies and Obsolescence Reserves

Frequency Standardization Reserve

Stabilization of Rates Reserves

Sinking Fund Reserves

Statements for Municipalities Receiving Power under Cost Contracts

THE HYDRO-ELECTRIC POWER SOUTHERN ONTARIO AND

BALANCE SHEET AS AT

ASSETS

FIXED ASSETS:

Southern Ontario system.....	\$446,687,749.11	
Thunder Bay system.....	60,476,012.77	
Service and administrative buildings and equipment.....	10,885,959.91	
Rural power districts.....	83,360,734.21	
	<u>\$601,410,456.00</u>	
Less grants in aid of construction—		
Province of Ontario—for rural power districts.....	41,331,275.53	
		<u>\$560,079,180.47</u>

CURRENT ASSETS:

Working funds.....	\$ 334,823.90	
Sundry accounts receivable.....	921,276.19	
Power accounts receivable.....	7,091,340.08	
Rural power district grants receivable.....	7,385,657.44	
Interest accrued.....	687,275.87	
Consumers' deposits.....	377,100.03	
Prepayments and sundry deposits.....	178,543.72	
Northern Ontario Properties—current account.....	811,058.26	
		<u>17,787,075.49</u>

INVENTORIES:

Construction and maintenance materials and supplies.....	\$ 30,961,728.85	
Construction and maintenance tools and equipment.....	13,503,693.27	
Office equipment.....	960,707.81	
		<u>45,426,129.93</u>

DEFERRED CHARGES AND SUNDRY ASSETS:

Frequency standardization—equipment and supplies.....	\$ 7,165,122.39	
Debenture discount and expense.....	4,374,577.47	
Sundry investments.....	241,280.00	
Agreements and mortgages.....	91,787.34	
Work-in-progress—deferred work orders.....	1,644,372.84	
		<u>13,517,140.04</u>

RESERVE FUND INVESTMENTS:

Investments in government and government guaranteed		
bonds, at amortized cost—		
Employers' liability insurance fund.....	\$ 2,615,746.50	
Pension fund.....	17,797,444.90	
Other reserves.....	65,147,460.26	
		<u>85,560,651.66</u>

\$722,370,177.59

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

OCTOBER 31, 1949

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt.....	\$345,664,000.00	
Less debentures issued to finance Northern Ontario Properties.....	58,200,000.00	
	<u>\$287,464,000.00</u>	
Advances from the Province of Ontario . . . \$	71,128,376.32	
Less advances for Northern Ontario Properties.....	4,786,463.54	
	<u>66,341,912.78</u>	
		<u>\$353,805,912.78</u>

CURRENT LIABILITIES:

Bank overdraft (partly secured).....	\$ 5,240,512.01	
Accounts and payrolls payable.....	17,003,234.66	
Power accounts—credit balances.....	319,835.64	
Consumers' deposits.....	446,247.11	
Debenture interest accrued.....	2,139,175.59	
Miscellaneous accruals.....	466,634.38	
	<u>25,615,639.39</u>	
RURAL POWER DISTRICTS—rates suspense.....		2,221,479.06

RESERVES:

Depreciation.....	\$ 88,387,141.40	
Contingencies and obsolescence.....	30,697,392.64	
Frequency standardization.....	59,589,685.43	
Stabilization of rates.....	22,686,710.13	
Fire insurance.....	306,482.43	
	<u>\$201,667,412.03</u>	
Employers' liability insurance.....	2,774,854.65	
Pension fund.....	18,020,277.97	
Miscellaneous.....	1,418,583.88	
	<u>223,881,128.53</u>	

SINKING FUND RESERVE:

Represented by funded debt and provincial advances retired through sinking funds.....	116,846,017.83	
	<u>\$ 722,370,177.59</u>	

Commitments under uncompleted contracts for the construction of fixed assets, approximately \$48,000,000.

Auditors' Report

We have examined the balance sheet of the Southern Ontario and Thunder Bay systems of The Hydro-Electric Power Commission of Ontario as at October 31, 1949 and the attached statement of operations for the year ended on that date. In connection therewith we made a general review of the accounting methods and, without making a detailed audit of the transactions, examined or tested the accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate. We received all the information and explanations we required from its officers and employees.

We report that in our opinion the foregoing balance sheet and related statement of operations (as more fully reported upon by us to the Lieutenant-Governor in Council) have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Southern Ontario and Thunder Bay systems of the Commission at October 31, 1949 (subject to the trusts which prevail in respect thereto) and of the results of their operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON & CO.
Chartered Accountants.

Toronto, Canada,
June 6, 1950.

THE HYDRO-ELECTRIC POWER

SOUTHERN ONTARIO AND

STATEMENT OF OPERATIONS

	Southern Ontario system	
	\$	c.
COST OF POWER:		
Cost of power purchased.....	13,220,956.	29
Operating, maintenance and administrative expenses.....	11,392,335.	74
Interest (including interest on funded debt and reserves less interest earned on investments).....	13,750,632.	31
Provision for depreciation.....	3,004,734.	75
Provision for contingencies and obsolescence.....	1,160,722.	80
Provision for frequency standardization.....	6,393,158.	21
Provision for stabilization of rates.....		
Provision for sinking fund.....	3,472,640.	50
	52,395,180.	60
Cost of power supplied to rural power districts by systems.....	5,740,269.	29
Total.....	46,654,911.	31
AMOUNTS RECEIVED FROM OR BILLED AGAINST MUNICIPALITIES AND OTHER CUSTOMERS:		
Municipalities (at interim rates).....	34,955,630.	15
Rural power districts.....		
Companies.....	12,338,249.	63
Mining area.....		
Local distribution systems.....	132,206.	84
Total.....	47,426,086.	62
Excess or deficiency of amounts received or billed over cost of power....	771,175.	31
Rural power district:		
Excess of costs over amounts billed for the year appropriated from the rural power district rates suspense account.....	\$	1,729,674.26
Municipalities:		
Excess of amounts billed over cost of power credited to municipalities on annual adjustment of cost of power:		
Southern Ontario system.....	\$	771,175.31
Thunder Bay system.....		28,100.99
		799,276.30
	\$	930,397.96

COMMISSION OF ONTARIO

THUNDER BAY SYSTEMS

For the Year Ended October 31, 1949

Thunder Bay system	Distribution in rural power districts	Total
\$ c.	\$ c.	\$ c.
1,407.21	.....	13,222,363.50
1,018,614.31	4,182,444.43	16,593,394.48
1,566,427.46	1,475,536.42	16,792,596.19
305,312.60	701,864.35	4,011,911.70
315,075.42	175,465.01	1,651,263.23
.....	.....	6,393,158.21
35,147.30	.....	35,147.30
393,071.71	372,650.87	4,238,363.08
3,635,056.01	6,907,961.08	.....
41,990.66	5,782,259.95	.....
3,593,065.35	12,690,221.03	62,938,197.69
1,079,159.95	.....	36,034,790.10
.....	10,960,546.77	10,960,546.77
1,908,181.68	.....	14,246,431.31
633,824.71	.....	633,824.71
.....	.....	132,206.84
3,621,166.34	10,960,546.77	62,007,799.73
28,100.99	1,729,674.26	930,397.96

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$. c.
POWER PLANTS				
Niagara division:				
Niagara river:				
Queenston-Chippawa.....	1,699.47	47,939,722.97	28,703,163.55	76,644,585.99
Ontario Power.....		7,281,151.42	14,440,029.89	21,721,181.31
Toronto Power.....	1,853.90	3,823,379.60	7,625,168.44	11,450,401.94
Weir.....		416,326.62		416,326.62
Ottawa river:				
Chats Falls.....	109,255.34	817,741.54	6,374,589.83	7,301,586.71
Chenau.....	12,862,214.50			12,862,214.50
Des Joachims.....	47,546,854.86			47,546,854.86
La Cave.....	9,918,277.40			9,918,277.40
Power sites, etc.....	786,242.82			786,242.82
Welland canal:				
DeCew Falls.....	208,273.70	9,088,631.80	17,134,544.97	26,431,450.47
Long Lac diversion.....		258,400.78	621,009.48	879,410.26
Ogoki diversion.....		3,290,050.04	1,743,247.84	5,033,297.88
Diesel generation.....			215,824.08	215,824.08
Steam generation.....	7,571,169.26			7,571,169.26
Georgian Bay division:				
Muskoka river: (below lake).....				
Bala No. 1 and No. 2.....		69,120.64	43,379.34	112,499.98
Ragged Rapids.....	145.37	70,889.49	1,258,607.28	1,329,642.14
Big Eddy.....		170,434.74	1,118,218.39	1,288,653.13
Land and water rights.....		17,224.03		17,224.03
Seyvern river:				
Wasdells.....	37,668.68	13,752.32	177,252.06	228,673.06
Big Chute.....	4,680.61	178,040.48	562,398.34	745,119.43
Beaver river:				
Eugenia.....		142,538.73	1,171,266.15	1,313,804.88
Saugeen river:				
Hanover.....		10,000.00		10,000.00
Walkerton.....		100,461.31	104,948.55	205,409.86
Muskoka river: (above lake)				
South Falls.....	79.73	17,934.95	565,781.53	583,796.21
Trethewey Falls.....		51,549.45	305,605.47	357,154.92
Hanna Chute.....		33,389.30	207,373.10	240,762.40
Hollow Lake dam.....		18,425.43	29,540.16	47,965.59
Sauble river:				
Lands and rights.....		4,200.00		4,200.00
Credit river:				
Caledon.....		4,850.00	27,795.02	32,645.02
Miscellaneous.....		3.00		3.00
Eastern Ontario division:				
Fenelon river:				
Fenelon Falls.....		60,000.00	102,849.88	162,849.88
Otonabee river:				
Auburn.....		31,400.00	302,948.11	334,348.11
Lakefield.....		19,620.05	216,651.44	236,271.49
Trent river:				
Heely Falls.....	676.72		1,205,664.61	1,206,341.33
Seymour.....	1,376.99		307,463.79	308,840.78
Ranney Falls.....		18,596.20	1,416,784.95	1,435,381.15
Crow river.....		1,000.00		1,000.00

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO SYSTEM

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
POWER PLANTS—(Continued)				
Trent river—continued				
Hagues Reach.....			572,466.30	572,466.30
Meyersburg.....	312.59		837,281.91	837,594.50
Sills Island.....		38,679.36	282,696.83	321,376.19
Frankford.....	12,955.23		252,879.93	265,835.16
Sidney.....			249,850.46	249,850.46
Mississippi river:				
High Falls.....	452.48	13,154.84	706,785.83	720,393.15
Galetta.....		20,000.00	138,573.55	158,573.55
Madawaska river:				
Barrett Chute.....		712,352.73	4,002,078.96	4,714,431.69
Calabogie.....		79,825.74	679,544.48	759,370.22
Stewartville.....		766,796.29	10,641,331.21	11,408,127.50
Bark Lake dam.....		610,309.25	799,933.87	1,410,243.12
Kaministiquia Lake dam.....		24,980.38	1,795.46	26,775.84
Undeveloped sites.....	176,081.66	800,000.00		976,081.66
Miscellaneous.....	1,805.98	280.49	34,264.35	36,350.82
Intangible.....		2,217,761.29		2,217,761.29
	79,242,077.29	79,232,975.26	105,181,589.39	263,656,641.94
TRANSFORMER STATIONS				
Niagara division.....	9,817,451.66		72,004,221.79	81,821,673.45
Georgian Bay division.....	362,003.06		3,583,406.47	3,945,409.53
Eastern Ontario division.....	542,054.67		8,145,974.16	8,688,028.83
	10,721,509.39		83,733,602.42	94,455,111.81
TRANSMISSION LINES				
Niagara division.....	17,964,716.31	9,678,695.51	39,437,267.71	67,080,679.53
Georgian Bay division.....	208,101.47	239,253.04	4,484,856.44	4,932,210.95
Eastern Ontario division.....	440,379.17	1,342,602.80	11,154,560.79	12,937,542.76
	18,613,196.95	11,260,551.35	55,076,684.94	84,950,433.24
LOCAL SYSTEMS				
Niagara division.....			86,772.54	86,772.54
Georgian Bay division.....	3,520.93		169,740.27	173,261.20
	3,520.93		256,512.81	260,033.74
COMMUNICATIONS				
Southern Ontario system.....	279,778.75		3,085,749.63	3,365,528.38
Sub-total.....	108,860,083.31	90,493,526.61	247,334,139.19	446,687,749.11
RURAL POWER DISTRICT				
H-E.P.C. investment.....	2,819,338.20	37,559.97	38,369,445.05	41,226,343.22
Government grants.....	2,779,834.64		37,748,365.44	40,528,200.08
	5,599,172.84	37,559.97	76,117,810.49	81,754,543.30
	114,459,256.15	90,531,086.58	323,451,949.68	528,442,292.41

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

THUNDER BAY SYSTEM

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
POWER PLANTS:	\$ c.	\$ c.	\$ c.	\$ c.
Nipigon river:				
Cameron Falls.....	66,590.21	857,418.84	9,120,744.53	10,044,753.58
Alexander.....	1,082.32	77,090.06	6,998,322.71	7,076,495.09
Pine Portage.....	18,496,478.03			18,496,478.03
Virgin Falls dam.....		55,450.41	426,736.74	482,187.15
Aguasabon river:				
Aguasabon.....		937,004.94	11,818,065.11	12,755,070.05
Kaministiquia river:				
Kakabeka Falls.....		1,006,126.86	3,664,561.10	4,670,687.96
	18,564,150.56	2,933,091.11	32,028,430.19	53,525,671.86
TRANSFORMER STATIONS.....	5,890.68		1,705,478.43	1,711,369.11
TRANSMISSION LINES.....	800,815.70	341,946.90	3,834,094.95	4,976,857.55
COMMUNICATIONS.....	5,555.07		134,237.02	139,792.09
LOCAL SYSTEMS.....	3,243.60		119,078.56	122,322.16
Sub-total.....	19,379,655.61	3,275,038.01	37,821,319.15	60,476,012.77
RURAL POWER DISTRICT:				
H-E.P.C. investment.....	107,908.17		695,207.29	803,115.46
Government grants.....	107,908.16		695,167.29	803,075.45
	215,816.33		1,390,374.58	1,606,190.91
	19,595,471.94	3,275,038.01	39,211,693.73	62,082,203.68

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

ADMINISTRATIVE BUILDINGS AND SERVICE BUILDINGS AND EQUIPMENT

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
ADMINISTRATIVE BUILDINGS:				
Toronto:				
University avenue.....	287,377.32	458,909.07	3,634,635.50	4,380,921.89
210 Bloor street west.....	238,774.82			238,774.82
	526,152.14	458,909.07	3,634,635.50	4,619,696.71
SERVICE BUILDINGS AND EQUIPMENT:				
Buildings:				
Toronto:				
Strachan avenue buildings.....			192,993.78	192,993.78
1379 Bloor street west.....			50,000.00	50,000.00
Islington service centre.....	2,014,173.54	156,950.00	2,066,647.00	4,237,770.54
Cobourg.....			4,879.24	4,879.24
Hamilton.....		550,000.00		550,000.00
Equipment:				
Toronto.....			1,105,659.20	1,105,659.20
Regions.....			124,960.44	124,960.44
	2,014,173.54	706,950.00	3,545,139.66	6,266,263.20
	2,540,325.68	1,165,859.07	7,179,775.16	10,885,959.91

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

FIXED ASSETS—Summary, October 31, 1949

System or Property	Under construction	In service		Total
		Non-depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$
Southern Ontario system.....	108,860,083.31	90,493,526.61	247,334,139.19	446,687,749.11
Thunder Bay system.....	19,379,655.61	3,275,038.01	37,821,319.15	60,476,012.77
Service and administrative buildings and equipment.....	2,540,325.68	1,165,859.07	7,179,775.16	10,885,959.91
Rural power districts.....	5,814,989.17	37,559.97	77,508,185.07	83,360,734.21
	136,595,053.77	94,971,983.66	369,843,418.57	601,410,456.00
Less grants-in-aid of construction—Province of Ontario for rural power districts.....				41,331,275.53
				560,079,180.47

THE HYDRO-ELECTRIC POWER

STATEMENT SHOWING CHANGES IN FIXED ASSETS—

Class of asset	Balance at beginning of year	Expenditures during year
SOUTHERN ONTARIO SYSTEM		
POWER PLANTS		
Niagara division:	\$	\$ c.
Queenston-Chippawa.....	76,668,045. 15	656. 84
Ontario Power.....	21,721,681. 31	
Toronto Power.....	11,441,891. 31	18,510. 63
Niagara Weir.....	394,000. 00	22,326. 62
Chats Falls.....	7,235,583. 15	92,479. 93
Chenau.....	3,613,084. 70	9,249,129. 80
Des Joachims.....	25,155,967. 49	22,390,887. 37
La Cave.....	787,761. 32	9,130,516. 08
DeCew Falls.....	25,987,750. 86	497,411. 74
Ogoki diversion.....	4,970,465. 48	62,832. 40
Steam generation.....	25,699. 35	7,545,469. 91
Diesel generation.....		215,824. 08
Other properties.....	1 665,475. 57	177. 51
Georgian Bay division:		
Eugenia.....	1,316,382. 68	4,527. 20
Ragged Rapids.....	1,333,544. 41	314. 73
Big Eddy.....	1,293,653. 13	
Big Chute.....	688,006. 77	58,856. 66
South Falls.....	571,648. 82	50,212. 01
Trethewey Falls.....	357,267. 92	
Other properties.....	874,345. 03	29,778. 57
Eastern Ontario division:		
Hagues Reach.....	573,262. 30	
Auburn.....	334,947. 47	31. 80
Seymour.....	316,297. 36	957. 42
Ranney Falls.....	1,438,177. 15	
Heely Falls.....	1,210,765. 49	908. 78
Meyersburg.....	838,166. 32	12. 18
High Falls.....	716,199. 88	6,661. 27
Barrett Chute.....	4,743,254. 82	
Bark Lake dam.....	1,410,468. 30	
Calabogie.....	760,394. 22	
Stewartville.....	10,939,153. 63	468,973. 87
Sills Island.....	320,313. 63	1,533. 56
Intangible and undeveloped sites.....	3,017,761. 29	176,081. 66
Other properties.....	1,149,750. 50	8,820. 33
	213,871,166. 81	50,033,892. 95
TRANSFORMER STATIONS		
Niagara division.....	69,043,968. 62	13,577,872. 80
Georgian Bay division.....	3,528,290. 25	508,072. 20
Eastern Ontario division.....	7,595,079. 15	1,267,348. 13
	80,167,338. 02	15,353,293. 13
TRANSMISSION LINES		
Niagara division.....	50,792,083. 79	17,734,996. 00
Georgian Bay division.....	4,750,658. 76	376,206. 47
Eastern Ontario division.....	12,772,884. 00	483,831. 28
	68,315,626. 55	18,595,033. 75
COMMUNICATIONS		
Southern Ontario system.....	144,058. 94	851,267. 77

COMMISSION OF ONTARIO

During Year Ended October 31, 1949

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for depreciation and contingencies	
\$ c.	\$ c.	\$ c.	\$ c.
19,146.00	4,970.00		76,644,585.99
300.00		200.00	21,721,181.31
		10,000.00	11,450,401.94
			416,326.62
25,105.00	15.37	1,356.00	7,301,586.71
			12,862,214.50
			47,546,854.86
			9,918,277.40
22,058.00	30,585.28	1,068.85	26,431,450.47
			5,033,297.88
			7,571,169.26
			215,824.08
			1,665,653.08
7,100.00		5.00	1,313,804.88
4,217.00			1,329,642.14
5,000.00			1,288,653.13
1,744.00			745,119.43
2,374.00		35,690.62	583,796.21
113.00			357,154.92
909.02	3,167.64	664.00	899,382.94
796.00			572,466.30
627.00	4.16		334,348.11
7,414.00		1,000.00	308,840.78
2,796.00			1,435,381.15
3,318.00	5,790.94	2,860.00	1,206,341.33
584.00			837,594.50
834.00		1,634.00	720,393.15
27,093.00	1,730.13		4,714,431.69
	225.18		1,410,243.12
1,024.00			759,370.22
			11,408,127.50
316.00		155.00	321,376.19
			3,193,842.95
14,636.80	2,162.83	4,264.00	1,137,507.20
140,868.82	48,651.53	58,897.47	263,656,641.94
333,104.00	153,056.54	314,007.43	81,821,673.45
19,614.00	13,315.65	58,023.27	3,945,409.53
48,548.00	77,855.71	47,994.74	8,688,028.83
401,266.00	244,227.90	420,025.44	94,455,111.81
1,302,258.05	32,208.20	111,934.01	67,080,679.53
165,652.89	2,886.36	26,115.03	4,932,210.95
263,484.82	440.70	55,247.00	12,937,542.76
1,731,395.76	35,535.26	193,296.04	84,950,433.24
2,396,259.11	142.59	25,914.85	3,365,528.38

**THE HYDRO-ELECTRIC POWER
STATEMENT SHOWING CHANGES IN FIXED ASSETS—**

Class of asset	Balance at beginning of year	Expenditures during year
SOUTHERN ONTARIO SYSTEM—(Continued)		
LOCAL SYSTEMS	\$ c.	\$ c.
Niagara division.....	85,168.45	1,604.09
Georgian Bay division.....	146,725.99	26,546.21
Eastern Ontario division.....	38,581.38	6,106.17
	270,475.82	34,256.47
Sub-total.....	362,768,666.14	84,867,744.07
RURAL POWER DISTRICT		
H-E.P.C. investments.....	32,310,912.24	9,926,858.15
Government grants.....	31,774,651.40	9,764,975.83
	64,085,563.64	19,691,833.98
RURAL LINES		
Georgian Bay division.....	922.02	.....
Southern Ontario system—Total.....	426,855,151.80	104,559,578.05
THUNDER BAY SYSTEM		
POWER PLANTS.....	35,120,090.00	18,478,214.67
TRANSFORMER STATIONS.....	1,582,324.36	131,303.02
TRANSMISSION LINES.....	4,237,683.84	795,989.19
LOCAL SYSTEM.....	107,591.08	14,824.08
COMMUNICATIONS.....	40,696.86	42,279.75
Sub-total.....	41,088,386.14	19,462,610.71
RURAL POWER DISTRICT		
H-E.P.C. investments.....	444,593.32	387,400.34
Government grants.....	444,593.32	387,360.33
	889,186.64	774,760.67
Thunder Bay system—Total.....	41,977,572.78	20,237,371.38
ADMINISTRATIVE BUILDINGS AND SERVICE BUILDINGS AND EQUIPMENT		
ADMINISTRATIVE BUILDINGS:		
Toronto—University avenue.....	3,733,717.42	677,757.47
—210 Bloor street west.....	.....	238,774.82
	3,733,717.42	916,532.29
SERVICE BUILDINGS AND EQUIPMENT:		
Buildings:		
Toronto—Strachan avenue.....	781,253.48	502.00
—1379 Bloor street west.....	50,000.00	.....
Islington—service centre.....	1,617,839.61	2,619,930.93
Other properties.....	572,245.08	.....
Equipment—Toronto.....	.....	499,531.66
—Regions.....	.....	124,960.44
	3,021,338.17	3,244,925.03
Total.....	6,755,055.59	4,161,457.32
Grand total.....	475,587,780.17	128,958,406.75
Less grants-in-aid of construction:		
Province of Ontario for rural power districts.....	32,219,244.72	9,112,030.81
Total fixed assets.....	443,368,535.45	119,846,375.94

COMMISSION OF ONTARIO

During Year Ended October 31, 1949

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserves for depreciation and contingencies	
\$ c.	\$ c.	\$ c.	\$ c.
		11.00	86,772.54
	34,108.60	10,578.95	173,261.20
	34,108.60	10,589.95	260,033.74
122,728.53	362,665.88	708,723.75	446,687,749.11
60,903.26	913,573.35	36,950.56	41,226,343.22
60,903.25	913,573.34	36,950.56	40,528,200.08
121,806.51	1,827,146.69	73,901.12	81,754,543.30
922.02			
	2,189,812.57	782,624.87	528,442,292.41
	1,534.50	71,098.31	53,525,671.86
	45.61	2,212.66	1,711,369.11
56,815.48			4,976,857.55
		93.00	122,322.16
56,815.48			139,792.09
	1,580.11	73,403.97	60,476,012.77
	28,576.50	301.70	803,115.46
	28,576.50	301.70	803,075.45
	57,153.00	603.40	1,606,190.91
	58,733.11	74,007.37	62,082,203.68
		*30,553.00	4,380,921.89
			238,774.82
		30,553.00	4,619,696.71
588,761.70			192,993.78
			50,000.00
			4,237,770.54
17,365.84			554,879.24
606,127.54			1,105,659.20
			124,960.44
			6,266,263.20
		30,553.00	10,885,959.91
	2,248,545.68	887,185.24	601,410,456.00
			41,331,275.53
	2,248,545.68	887,185.24	560,079,180.47

*Charged to Operations.

Depreciation.....\$515,468.16

Contingencies.....341,164.08

Operations.....30,553.00

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

RURAL POWER DISTRICTS

CAPITAL EXPENDITURES AND GRANTS—Summary at October 31, 1949

Statement showing the total capital expenditures in Rural Power Districts to October 31, 1949; the grants payable to the Commission by the Province of Ontario in respect thereto; and the amounts paid to the Commission on account of such grants to October 31, 1949

	Accumulated total to October 31, 1948	During the year	Accumulated total to October 31, 1949
	\$ c.	\$ c.	\$ c.
Total capital expenditures less retirements—			
Southern Ontario district.....	64,085,563. 64	17,668,979. 66	81,754,543. 30
Thunder Bay district.....	889,186. 64	717,004. 27	1,606,190. 91
	64,974,750. 28	18,385,983. 93	83,360,734. 21
Northern Ontario Properties district.....	2,622,233. 78	3,348,765. 49	5,970,999. 27
	67,596,984. 06	21,734,749. 42	89,331,733. 48
Less portion of expenditures not subject to Provincial grant*—			
Southern Ontario district.....	536,260. 84	161,882. 30	698,143. 14
Thunder Bay district.....		40. 01	40. 01
Northern Ontario Properties district.....	299,166. 74	163,724. 79	462,891. 53
	*835,427. 58	325,647. 10	1,161,074. 68
Balance of expenditures less retirements subject to Provincial grants (all districts).....	66,761,556. 48	21,409,102. 32	88,170,658. 80
Grants payable by the Province as authorized by Order-in-Council (50%)—			
Southern Ontario district and Thunder Bay district.....	32,219,244. 72	9,112,030. 81	41,331,275. 53
Northern Ontario Properties district.....	1,161,533. 52	1,592,520. 35	2,754,053. 87
	33,380,778. 24	10,704,551. 16	44,085,329. 40
Amounts paid by the Province to the Commis- sion on account of such authorized grants.	32,797,103. 96	3,902,568. 00	36,699,671. 96
Balance owing by the Province.....	583,674. 28	6,801,983. 16	7,385,657. 44

*Grants not paid by the Province in respect of—generating plant, transformer station and transmission line (Manitoulin), a summer resort, street-lighting systems, cost of pole replacements in excess of original installation, service buildings and amounts paid for business already established.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Account with The Provincial Treasurer of the Province of Ontario

As at October 31, 1949

ADVANCES FROM AND REPAYMENTS TO THE PROVINCE OF ONTARIO

	Total	Northern Ontario Properties operated for the Province of Ontario	Southern Ontario and Thunder Bay systems operated on a "cost basis"
	\$ c.	\$ c.	\$ c.
Balance of advance repayable under the 1935 debt retirement plan.....	189,994,133.63	8,254,050.08	181,740,083.55
REPAYMENT OF ADVANCES—1934 TO 1949:			
Cash repayments made by the Commission under new retirement plan, equal to the maturities in the period November 1, 1934 to October 31, 1949, of Province of Ontario bonds allocated as issued for the Commission's purposes—			
Total to October 31, 1948. . . . \$116,129,774.44			
During the year ended October 31, 1949..... 2,735,982.87	118,865,757.31	3,467,586.54	115,398,170.77
Balance of advances at October 31, 1949.	71,128,376.32	4,786,463.54	66,341,912.78
Payable in the following currencies:			
Canadian.....	1,090,029.15	116,913.60	973,115.55
Canadian or United States.....	8,718,026.01	4,799.73	8,713,226.28
Canadian, United States or Sterling.....	61,320,321.16	4,664,750.21	56,655,570.95
	71,128,376.32	4,786,463.54	66,341,912.78

THE HYDRO-ELECTRIC POWER

FUNDED DEBT as at

(Guaranteed as to principal and

Description		Date of maturity	Date of issue
2 %	Debentures.....	Jan. 1, 1950	Jan. 1, 1945
3 %	Serial debentures.....	May 1, 1950/52	May 1, 1942
3 %	Debentures.....	Feb. 1, 1951	Feb. 1, 1943
3 %	".....	Jan. 1, 1953	Jan. 1, 1943
3 1/4 %	".....	Feb. 1, 1953	Feb. 1, 1938
2 1/2 %	".....	Nov. 1, 1953	Nov. 1, 1948
2 1/2 %	".....	July 15, 1954	July 15, 1949
2 %	".....	April 1, 1956	April 1, 1947
4 %	".....	Aug. 1, 1957	Aug. 1, 1917
4 %	".....	June 1, 1958	June 1, 1918
4 %	".....	Dec. 1, 1958	Dec. 1, 1918
3 %	".....	Jan. 1, 1960	Jan. 1, 1945
3 %	".....	Mar. 1, 1963	Mar. 1, 1948
3 %	".....	July 2, 1964	July 2, 1948
3 %	".....	Dec. 15, 1965	Dec. 15, 1948
2 3/4 %	".....	April 1, 1967	April 1, 1947
3 %	".....	April 1, 1967	April 1, 1949
3 %	".....	Jan. 15, 1968	July 15, 1949
2 3/4 %	".....	Oct. 1, 1968	Oct. 1, 1947
4 3/4 %	".....	Jan. 1, 1970	Jan. 1, 1930
2 3/4 %	".....	June 1, 1971	June 1, 1946
Total Funded Debt (at par of exchange)			

Summary of Changes in Funded Debt during year ended October 31, 1949

Outstanding at October 31, 1948.....	\$200,539,000.00
Redemptions during the year.....	4,875,000.00
	\$195,664,000.00
New bond issues during the year.....	150,000,000.00
Outstanding at October 31, 1949.....	\$345,664,000.00

COMMISSION OF ONTARIO

October 31, 1949

interest by the Province of Ontario)

Principal outstanding October 31, 1949	Where payable	Remarks
\$ c.		
5,000,000.00	Canada	
3,000,000.00	Canada	\$1,000,000.00 maturing annually.
6,000,000.00	Canada	
5,000,000.00	N.Y.	Callable on or after Jan. 1, 1951 at 101.
9,000,000.00	Canada	Callable on or after Feb. 1, 1950 at 100.
10,000,000.00	Canada	
5,000,000.00	Canada	
10,000,000.00	Canada	
8,000,000.00	C., N.Y., L.	
200,000.00	Toronto	
100,000.00	Toronto	
7,500,000.00	Canada	Callable on or after Jan. 1, 1955 at 100.
35,000,000.00	Canada	Callable in whole or in part on or after Mar. 1, 1961 at 100.
40,000,000.00	Canada	Callable in whole or in part on or after July 2, 1960 at 100.
45,000,000.00	Canada	Callable in whole or in part on or after Dec. 15, 1963 at 100.
15,000,000.00	Canada	Callable in whole or in part on or after April 1, 1964 at 100.
45,000,000.00	Canada	Callable in whole or in part on or after April 1, 1965 at 100.
45,000,000.00	Canada	Callable in whole or in part on or after Jan. 15, 1966 at 100.
20,000,000.00	Canada	Callable in whole or in part on or after Oct. 1, 1965 at 100.
11,864,000.00	Canada	
20,000,000.00	Canada	Callable in whole or in part on or after June 1, 1961 at 100.
345,664,000.00		

Funded Debt issued to finance:

Southern Ontario and Thunder Bay systems. \$287,464,000.00
Northern Ontario Properties. 58,200,000.00

\$345,664,000.00

Payable in the following currencies:

Canadian. \$332,664,000.00
Canadian, United States or Sterling. 8,000,000.00
United States. 5,000,000.00

\$345,664,000.00

**THE HYDRO-ELECTRIC POWER
POWER ACCOUNTS RECEIVABLE**

System or property	Interim power bills	Accumulated amount standing as a charge or credit on October 31, 1949		Net total for wholesale consumers
		Charge	Credit	
SOUTHERN ONTARIO SYSTEM:	\$ c.	\$ c.	\$ c.	\$ c.
Municipalities.....	4,057,876.44	404,122.26	1,175,297.57	3,286,701.13
Companies.....	773,147.16			773,147.16
Local and rural.....				
	4,831,023.60	404,122.26	1,175,297.57	4,059,848.29
THUNDER BAY SYSTEM:				
Municipalities.....	187,644.33		28,100.99	159,543.34
Companies.....	258,507.36			258,507.36
Local and rural.....				
	446,151.69		28,100.99	418,050.70
Grand totals.....	5,277,175.29	404,122.26	1,203,398.56	4,477,898.99

SUNDRY ACCOUNTS RECEIVABLE

Arising from construction of works, sale of electrical equipment, etc.....				
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**THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
DEPRECIATION RESERVES—October 31, 1949**

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.	\$ c.
Balances at November 1, 1948	75,270,450.48	5,579,448.60	959,113.53	81,809,012.61
Add:				
Interest at 4% on reserve balances.....	3,010,818.02	223,177.94	24,340.02	3,258,335.98
Provision in the year—direct	3,695,533.03	316,378.67		4,011,911.70
—indirect.....			129,609.30	129,609.30
Adjustments in respect of equipment transferred.....		6,406.58		6,406.58
Sub-total.....	81,976,801.53	6,125,411.79	1,113,062.85	89,215,276.17
Deduct:				
Amount withdrawn for re- newals.....	179,210.37	1,332.04		180,542.41
Amount withdrawn in re- spect of assets removed from service.....	490,356.48	25,111.68		515,468.16
Excess reserve accumulated against assets removed from service—transferred to contingency reserve...	126,726.20			126,726.20
Sundry charges.....	5,398.00			5,398.00
Balances at October 31, 1949.	81,175,110.48	6,098,968.07	1,113,062.85	88,387,141.40

COMMISSION OF ONTARIO

—October 31, 1949

Retail power consumers local and rural districts	Net total of power accounts receivable	Balance sheet figures		Debit balances three months or more overdue
		Debit balances	Credit balances	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	3,286,701.13	3,479,037.79	192,336.66	11,989.81
.....	773,147.16	888,616.97	115,469.81	.....
2,265,544.19	2,265,544.19	2,265,544.19	.....	17,899.40
2,265,544.19	6,325,392.48	6,633,198.95	307,806.47	29,889.21
.....	159,543.34	171,572.51	12,029.17	.....
.....	258,507.36	258,507.36	.....	.....
28,061.26	28,061.26	28,061.26	.....	578.01
28,061.26	446,111.96	458,141.13	12,029.17	578.01
2,293,605.45	6,771,504.44	7,091,340.08	319,835.64	30,467.22

—October 31, 1949

.....	\$ c.	.....	\$ c.
.....	921,276.19	.....	21,263.79

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

CONTINGENCIES AND OBSOLESCENCE RESERVES—October 31, 1949

	Southern Ontario system	Thunder Bay system	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.
Balances at November 1, 1948.	22,392,518.48	6,289,560.93	28,682,079.41
Add:			
Interest at 4% on reserve balances.	892,522.51	202,676.96	1,095,199.47
Provision in the year.	1,333,421.29	317,841.94	1,651,263.23
Adjustments re power purchased in prior years. ....	.....	43,692.96	43,692.96
Excess depreciation reserve accumulated against assets removed from service, transferred from depreciation reserve.	126,726.20	.....	126,726.20
Adjustments arising from the transfer of equipment, etc.	20,279.19	.....	20,279.19
Sub-total.	24,765,467.67	6,853,772.79	31,619,240.46
Deduct:			
Contingencies met with during the year. .	575,208.00	5,475.74	580,683.74
Excess of cost of fixed assets retired over accumulated depreciation reserve.	292,268.39	48,895.69	341,164.08
Balances at October 31, 1949.	23,897,991.28	6,799,401.36	30,697,392.64

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO SYSTEM
FREQUENCY STANDARDIZATION RESERVE—October 31, 1949

Balance at November 1, 1948.....	\$ c. 54,217,144.83
Interest at 4% on monthly balances.....	2,084,582.07
Provision in the year as per cost statement.....	6,393,158.21
Industrial consumers' contributions.....	186.00
	62,695,071.11
Less expenditures for conversion expenses.....	3,105,385.68
Balance at October 31, 1949.....	59,589,685.43

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
STABILIZATION OF RATES RESERVES—October 31, 1949

	Southern Ontario system	Thunder Bay		Totals for power undertakings operated on a "cost basis"
		System	Mining area	
	\$ c.	\$ c.	\$ c.	\$ c.
Balances at November 1, 1948..	20,778,760.94	514,058.70	487,529.23	21,780,348.87
Interest at 4% on reserve balances.....	831,150.44	20,562.35	19,501.17	871,213.96
Appropriation in the year as per cost statements.....			35,147.30	35,147.30
Balances at October 31, 1949..	21,609,911.38	534,621.05	542,177.70	22,686,710.13

NOTE: The above amount of \$21,609,911.38 includes special accounts of \$1,738,983.10, \$413,639.43 and \$780,109.10 pertaining to municipalities of the Niagara, Georgian Bay and Eastern Ontario divisions respectively.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS
SINKING FUND RESERVES—October 31, 1949

	Southern Ontario system	Thunder Bay system	Service and administrative buildings and equipment	Totals for power undertakings operated on a "cost basis"
	\$ c.	\$ c.	\$ c.	\$ c.
Balances at November 1, 1948..	101,508,198.21	5,612,199.69	1,096,702.53	108,217,100.43
Interest at 4% on reserve balances.....	4,060,327.93	224,487.99	43,868.10	4,328,684.02
Provision in the year—direct..	3,839,465.09	398,897.99		4,238,363.08
—indirect.....			62,240.19	62,240.19
	109,407,991.23	6,235,585.67	1,202,810.82	116,846,387.72
Less adjustment in the year...	369.89			369.89
Balances at October 31, 1949..	109,407,621.34	6,235,585.67	1,202,810.82	116,846,017.83

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

STATEMENTS FOR MUNICIPALITIES
RECEIVING POWER UNDER COST CONTRACTS
For the year ended October 31, 1949

STATEMENTS FOR EACH SYSTEM

Cost of Power	Credit or Charge Summary
Sinking Fund	Rural Operating

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	\$ c.	\$ c.	\$ c.			\$ c.	\$ c.
Acton.....	27.50	36.80	376,148.28	2,238.9	1,670.2	12,726.53	12,841.83
Agincourt.....	27.50	36.80	86,508.65	475.7	354.9	2,704.26	3,104.89
Ailsa Craig.....	35.50	47.50	42,677.83	215.4	160.7	1,224.50	2,053.05
Alexandria.....	39.00	52.20	110,756.44	570.9	425.9	3,245.19	4,307.53
Alliston.....	37.50	50.20	132,263.65	794.2	592.5	4,514.71	5,611.81
Almonte.....	28.00	37.50	139,670.21	802.1	598.4	4,559.66	5,459.81
Alvinston.....	39.00	52.20	52,480.77	176.3	131.5	1,002.00	1,919.77
Amherstburg.....	31.50	42.20	347,439.41	1,748.8	1,304.6	9,940.75	12,200.81
Ancaster Twp.....	26.00	34.80	109,841.27	599.3	447.1	3,406.80	4,763.92
Apple Hill.....	39.00	52.20	9,856.74	58.7	43.8	333.75	406.67
Arkona.....	39.00	52.20	40,513.62	135.5	101.1	770.36	949.99
Arnprior.....	25.00	33.50	292,961.74	2,122.8	1,583.6	12,066.75	11,911.88
Arthur.....	39.00	52.20	92,202.07	330.4	246.5	1,878.27	2,041.20
Athens.....	39.00	52.20	56,927.85	180.6	134.7	1,026.39	752.10
Aurora.....	27.00	36.10	337,478.00	2,150.5	1,604.3	12,224.39	10,254.07
Aylmer.....	29.00	38.80	301,758.12	1,673.1	1,248.1	9,510.23	11,252.06
Ayr.....	32.00	42.90	78,284.95	418.5	312.2	2,378.89	3,416.60
Baden.....	26.50	35.50	122,127.81	756.3	564.2	4,299.07	4,321.80
Barrie.....	26.50	35.50	759,659.64	6,265.4	4,674.0	35,614.80	32,368.07
Bath.....	39.00	52.20	40,469.89	86.3	64.4	490.71	(282.88)
Beachville.....	27.50	36.80	151,662.17	875.9	653.4	4,978.76	5,052.00
Beamsville.....	25.00	33.50	123,306.34	829.9	619.1	4,717.40	5,083.64
Beaverton.....	36.00	48.20	75,797.92	445.6	332.4	2,532.81	3,174.55
Beeton.....	39.00	52.20	40,833.99	176.5	131.7	1,003.52	1,659.36
Belle River.....	31.50	42.20	78,136.56	377.3	281.5	2,144.97	2,919.64
Belleville.....	22.00	29.40	1,385,276.65	11,190.9	8,348.4	63,612.89	51,796.93
Blenheim.....	30.50	40.80	159,020.82	805.1	600.6	4,576.43	6,769.39
Bloomfield.....	39.00	52.20	53,389.30	229.6	171.3	1,305.30	2,214.36
Blyth.....	39.00	52.20	67,604.44	294.8	219.9	1,675.59	1,673.48
Bobcaygeon.....	39.00	52.20	89,060.30	277.6	207.1	1,577.80	2,300.20
Bolton.....	31.00	41.50	61,862.37	320.0	238.7	1,818.84	2,215.89
Bothwell.....	35.50	47.50	45,354.04	199.3	148.7	1,133.06	2,227.09
Bowmanville.....	26.00	34.80	635,319.22	4,059.1	3,028.1	23,073.39	24,477.01
Bradford.....	39.00	52.20	112,535.42	669.7	499.6	3,806.84	4,658.30
Braeside.....	27.00	36.10	39,208.81	263.3	196.4	1,496.53	1,437.21
Brampton.....	25.00	33.50	657,024.20	4,538.6	3,385.8	25,799.00	21,777.19
Brantford.....	22.50	30.10	4,145,709.09	28,243.9	21,069.9	160,547.74	137,553.58
Brantford Twp.....	27.00	36.10	509,701.51	3,404.0	2,539.4	19,349.64	17,663.92
Brechin.....	39.00	52.20	13,861.11	60.6	45.2	344.41	88.06
Bridgeport.....	29.00	38.80	61,435.13	333.1	248.5	1,893.51	1,859.41

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$
15,310.40	3,522.06	7,491.79	3,866.43	139.04	55,898.08	61,464.18	5,566.10
3,521.17	844.50	1,603.10	889.22	29.54	12,696.68	13,061.85	365.17
1,737.12	432.34	738.89	438.69	13.38	6,637.97	7,635.16	997.19
4,508.13	1,390.76	1,925.05	1,138.73	35.45	16,550.84	22,233.89	5,683.05
5,383.54	1,528.13	2,586.68	1,359.53	49.32	21,033.72	29,745.64	8,711.92
5,685.01	1,561.61	2,709.52	1,436.03	49.81	21,461.45	22,438.31	976.86
2,136.13	588.81	667.94	539.47	10.95	6,865.07	6,865.07	
14,141.86	3,392.09	6,071.21	3,571.38	108.60	49,426.70	55,055.76	5,629.06
4,470.88	1,081.66	2,035.58	1,129.07	37.22	16,925.13	15,558.23	(1,366.90)
401.20	113.07	195.35	101.34	3.65	1,555.03	2,288.58	733.55
1,649.03	455.10	519.37	416.46	8.42	4,768.73	5,275.88	507.15
11,924.45	2,850.46	6,838.89	3,012.27	131.83	48,736.53	53,049.81	4,313.28
3,752.91	1,361.61	1,183.12	947.77	20.52	11,185.40	12,864.81	1,679.41
2,317.14	867.07	660.69	585.26	11.21	6,219.86	7,030.31	810.45
13,736.40	3,020.13	7,098.43	3,468.92	133.55	49,935.89	57,915.65	7,979.76
12,282.49	2,922.87	5,705.39	3,101.68	103.90	44,878.62	48,426.51	3,547.89
3,186.44	774.49	1,434.00	804.70	25.99	12,021.11	13,393.39	1,372.28
4,970.98	1,112.37	2,510.43	1,255.35	46.97	18,516.97	20,027.38	1,510.41
30,920.50	6,481.10	19,626.20	7,808.42	389.09	133,208.18	165,926.29	32,718.11
1,647.25	673.46	348.86	416.05	5.36	3,298.81	3,359.67	60.86
6,173.12	1,440.68	2,955.73	1,558.94	54.39	22,213.62	24,043.71	1,830.09
5,018.95	1,112.63	2,698.18	1,267.46	51.54	19,949.80	20,741.13	791.33
3,085.21	888.50	1,472.33	779.13	27.67	11,960.20	16,022.70	4,062.50
1,662.07	562.92	607.71	419.73	10.96	5,926.27	6,877.11	950.84
3,180.40	778.32	1,320.32	803.18	23.43	11,170.26	11,880.06	709.80
56,385.05	11,919.75	35,329.42	14,243.95	694.97	233,982.96	245,443.17	11,460.21
6,472.64	1,594.37	2,791.42	1,634.59	49.99	23,888.83	24,502.48	613.65
2,173.11	732.00	798.51	548.90	14.26	7,786.44	8,942.28	1,155.84
2,751.71	722.09	1,035.11	694.92	18.31	8,571.21	11,479.35	2,908.14
3,625.03	1,349.92	1,022.76	915.67	17.24	10,808.62	10,808.62	
2,517.99	619.95	1,090.43	635.88	19.87	8,918.85	9,907.69	988.84
1,846.05	483.03	710.41	466.20	12.38	6,878.22	7,062.61	184.39
25,859.46	6,758.37	13,385.10	6,532.45	252.08	100,337.86	105,377.19	5,039.33
4,580.54	1,308.26	2,193.76	1,156.76	41.59	17,746.05	26,081.36	8,335.31
1,595.92	409.70	855.19	403.14	16.35	6,214.04	7,091.53	877.49
26,742.92	5,662.52	14,731.21	6,753.49	281.85	101,748.18	113,425.00	11,676.82
168,743.20	35,609.98	92,136.62	42,613.33	1,753.94	638,958.39	634,203.16	(4,755.23)
20,746.43	4,438.97	11,137.34	5,239.17	211.40	78,786.87	91,672.39	12,885.52
564.19	190.20	208.88	142.48	3.76	1,541.98	2,357.31	815.33
2,500.60	601.88	1,124.37	631.50	20.69	8,631.96	9,642.17	1,010.21

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	\$ c.	\$ c.	\$ c.			\$ c.	\$ c.
Brigden	39.00	52.20	44,731.73	165.5	123.5	941.04	1,805.32
Brighton	27.50	36.80	122,547.68	783.0	584.1	4,450.66	4,853.65
Brockville	24.50	32.80	1,324,313.72	9,450.7	7,050.2	53,720.82	49,919.74
Brussels	39.00	52.20	81,636.05	364.7	272.1	2,073.34	2,707.40
Burford	28.00	37.50	78,321.31	468.2	349.3	2,661.59	3,080.53
Burgessville	39.00	52.20	26,800.92	115.0	85.8	653.78	430.54
Burlington	24.50	32.80	369,264.29	2,603.9	1,942.5	14,801.40	14,482.39
Caledonia	27.00	36.10	89,105.75	538.5	401.7	3,060.86	3,654.37
Campbellville	39.00	52.20	24,395.69	86.3	64.4	490.72	478.47
Cannington	34.50	46.20	59,198.20	374.3	279.2	2,127.44	2,564.19
Cardinal	26.50	35.50	84,989.60	537.5	401.0	3,055.57	2,991.82
Carleton Place	25.50	34.10	396,311.86	2,629.0	1,961.2	14,943.92	15,579.26
Cayuga	39.00	52.20	66,635.47	295.2	220.2	1,677.87	2,948.03
Chatham	25.50	34.10	1,738,371.15	10,778.9	8,041.0	61,270.58	56,802.34
Chatsworth	37.50	50.20	28,186.80	172.0	128.3	977.62	1,229.23
Chesley	31.00	41.50	145,391.39	992.4	740.3	5,640.91	6,282.10
Chesterville	30.00	40.20	116,992.08	728.7	543.6	4,142.10	4,136.09
Chippawa	21.50	28.80	54,447.70	504.3	376.2	2,866.56	2,066.16
Clifford	39.00	52.20	47,586.80	183.5	136.9	1,043.15	1,106.50
Clinton	30.50	40.80	227,212.19	1,256.3	937.2	7,141.24	8,597.08
Cobden	39.00	52.20	73,020.98	293.3	218.8	1,667.22	1,543.53
Cobourg	26.50	35.50	562,004.90	3,608.8	2,692.2	20,513.81	22,873.12
Colborne	30.50	40.80	66,003.33	409.9	305.8	2,330.14	2,676.17
Coldwater	33.50	44.90	22,181.60	156.3	116.6	888.47	1,156.30
Collingwood	27.50	36.80	493,714.03	3,613.3	2,695.5	20,539.09	21,150.44
Comber	38.50	51.60	54,006.21	167.4	124.9	951.71	1,304.45
Cookstown	35.50	47.50	24,745.05	160.2	119.5	910.56	1,103.16
Cottam	38.00	50.90	38,256.06	154.0	114.9	875.51	1,016.13
Courtright	39.00	52.20	36,939.94	89.7	66.9	509.76	281.08
Creemore	38.50	51.60	45,309.57	244.6	182.5	1,390.61	1,163.12
Dashwood	34.00	45.50	45,314.73	203.6	151.9	1,157.44	2,190.94
Delaware	29.00	38.80	22,357.27	134.9	100.7	767.31	882.59
Delhi	31.00	41.50	157,092.22	881.5	657.6	5,010.77	6,554.35
Deseronto	35.00	46.90	79,037.97	413.4	308.4	2,349.97	3,416.36
Dorchester	33.00	44.20	40,129.62	167.0	124.6	949.42	923.45
Drayton	39.00	52.20	52,190.87	179.9	134.2	1,022.57	1,219.40
Dresden	32.50	43.50	174,369.53	783.4	584.4	4,452.99	8,159.69
Drumbo	31.50	42.20	32,673.19	174.7	130.3	992.86	1,448.01
Dublin	39.00	52.20	21,415.32	91.7	68.4	521.19	714.70
Dundalk	31.00	41.50	53,717.04	346.5	258.5	1,969.71	2,379.49

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,820.72	486.26	612.97	459.81	10.28	6,136.40	6,447.18	310.78
4,988.07	1,303.63	2,581.89	1,260.05	48.62	19,486.57	21,496.68	2,010.11
53,903.67	13,072.50	30,303.56	13,616.68	586.90	215,123.87	231,246.20	16,122.33
3,322.84	863.97	1,275.90	839.16	22.65	11,105.26	14,203.89	3,098.63
3,187.92	730.82	1,567.88	805.07	29.08	12,062.89	13,099.06	1,036.17
1,090.88	290.00	404.93	275.49	7.14	3,152.76	4,479.08	1,326.32
15,030.20	3,124.38	8,412.67	3,795.62	161.71	59,808.37	63,712.57	3,904.20
3,626.88	831.51	1,802.49	915.91	33.44	13,925.46	14,501.10	575.64
992.98	281.95	313.90	250.75	5.36	2,814.13	3,360.84	546.71
2,409.55	659.05	1,225.78	608.51	23.24	9,617.76	12,897.14	3,279.38
3,459.34	932.77	1,780.07	873.83	33.38	13,126.78	14,236.13	1,109.35
16,131.12	4,083.22	8,630.73	4,074.85	163.26	63,606.36	66,877.81	3,271.45
2,712.27	716.33	1,041.09	684.95	18.33	9,798.87	11,495.14	1,696.27
70,757.09	15,540.28	35,834.49	17,868.66	669.38	258,742.82	274,198.42	15,455.60
1,147.29	321.69	563.84	289.72	10.68	4,540.07	6,439.06	1,898.99
5,917.88	1,493.63	3,215.74	1,494.47	61.63	24,106.36	30,721.49	6,615.13
4,761.94	1,299.23	2,400.19	1,202.89	45.25	17,987.69	21,846.62	3,858.93
2,216.19	386.97	1,559.19	559.66	31.32	9,686.05	10,835.37	1,149.32
1,936.93	524.45	665.95	489.15	11.40	5,777.53	7,148.36	1,370.83
9,248.24	2,185.54	4,255.90	2,335.55	78.02	33,841.57	38,239.33	4,397.76
2,972.18	1,029.24	1,041.95	750.72	18.21	9,023.05	11,422.57	2,399.52
22,875.34	6,035.59	11,922.53	5,778.44	224.12	90,222.95	95,573.80	5,350.85
2,686.54	732.41	1,348.16	678.63	25.46	10,477.51	12,475.29	1,997.78
902.86	225.62	501.99	228.00	9.72	3,912.96	5,233.12	1,320.16
20,095.69	4,843.51	11,491.49	5,074.84	224.39	83,419.45	99,195.64	15,776.19
2,198.22	637.65	628.32	555.15	10.40	6,285.90	6,447.16	161.26
1,007.20	270.51	520.41	254.36	9.95	4,076.15	5,677.42	1,601.27
1,557.14	410.86	553.50	393.24	9.57	4,815.95	5,850.38	1,034.43
1,503.57	449.52	362.92	379.72	5.57	3,492.14	3,492.14	.....
1,844.24	559.94	809.49	465.74	15.19	6,248.33	9,419.21	3,170.88
1,844.45	481.50	720.24	465.80	12.65	6,873.02	6,912.90	39.88
910.01	206.69	450.78	229.82	8.38	3,455.58	3,905.90	450.32
6,394.14	1,505.75	2,973.81	1,614.75	54.74	24,108.31	27,291.68	3,183.37
3,217.09	984.35	1,404.57	812.62	25.67	12,210.63	14,463.36	2,252.73
1,633.40	438.29	588.20	412.49	10.37	4,955.62	5,509.02	553.40
2,124.33	595.26	666.35	536.49	11.17	6,175.57	7,007.09	831.52
7,097.38	1,843.54	2,795.69	1,792.38	48.65	26,190.32	25,420.88	(769.44)
1,329.90	323.24	598.49	335.85	10.85	5,039.20	5,499.01	459.81
871.67	230.27	327.34	220.14	5.69	2,891.00	3,569.23	678.23
2,186.45	588.87	1,126.42	552.16	21.52	8,824.62	10,726.83	1,902.21

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	\$ c.	\$ c.	\$ c.			\$ c.	\$ c.
Dundas.....	22.50	30.10	563,188.10	3,995.2	2,980.4	22,709.95	19,333.50
Dunnville.....	25.00	33.50	279,137.48	1,878.7	1,401.5	10,679.11	11,785.45
Durham.....	32.50	43.50	104,587.37	674.7	503.3	3,835.03	4,556.24
Dutton.....	31.50	42.20	60,144.56	307.8	229.6	1,749.50	2,373.86
East York Twp....	24.00	32.10	2,432,843.37	16,783.3	12,520.2	95,401.03	77,659.34
Elmira.....	28.50	38.20	326,671.95	2,104.4	1,569.9	11,962.28	11,260.88
Elmvale.....	33.00	44.20	47,600.06	312.9	233.4	1,778.45	2,129.64
Elmwood.....	39.00	52.20	22,787.70	135.5	101.1	770.36	985.35
Elora.....	29.50	39.50	133,058.18	715.0	533.4	4,064.38	4,716.60
Embro.....	31.50	42.20	45,537.32	242.6	181.6	1,383.75	1,686.05
Erieau.....	39.00	52.20	66,863.22	266.9	199.1	1,517.10	2,199.03
Erie Beach.....	39.00	52.20	10,041.25	36.3	27.1	206.50	258.91
Essex.....	30.50	40.80	176,816.03	904.8	675.0	5,143.34	6,121.82
Etobicoke Twp....	24.00	32.10	2,653,627.79	18,108.6	13,509.0	102,935.43	88,982.38
Exeter.....	30.00	40.20	238,762.67	1,317.4	982.8	7,488.71	10,083.64
Fergus.....	27.50	36.80	351,983.04	2,095.2	1,562.9	11,908.93	12,022.30
Finch.....	38.50	51.60	43,891.75	188.6	140.7	1,072.12	875.04
Flesherton.....	39.00	52.20	25,626.31	159.2	118.8	905.23	889.08
Fonthill.....	28.00	37.50	60,477.22	416.4	310.6	2,366.70	2,465.42
Forest.....	36.50	48.90	206,776.89	823.7	614.5	4,682.35	6,538.27
Forest Hill.....	22.00	29.40	1,239,459.98	8,864.6	6,613.0	50,389.52	37,973.96
Frankford.....	22.00	29.50	7,821.52	57.5	42.8	326.13	600.35
Galt.....	22.50	30.10	2,160,928.68	14,472.9	10,796.6	82,267.59	69,527.26
Georgetown.....	29.00	38.80	483,999.29	2,748.4	2,050.3	15,622.81	17,028.67
Glencoe.....	39.00	52.20	92,334.25	289.3	215.8	1,644.34	2,677.81
Goderich.....	32.50	43.50	509,621.17	2,616.4	1,951.8	14,872.25	21,165.51
Grand Valley.....	39.00	52.20	47,510.39	250.3	186.7	1,422.61	2,025.07
Granton.....	38.00	50.90	33,927.64	98.3	73.3	558.53	650.26
Gravenhurst.....	25.00	33.50	228,497.11	1,785.9	1,332.3	10,151.82	10,132.46
Grimsby.....	26.00	34.80	194,680.52	1,270.8	948.0	7,223.54	8,600.96
Guelph.....	23.00	30.80	2,419,199.20	16,244.0	12,118.0	92,336.33	78,200.78
Hagersville.....	28.00	37.50	236,171.71	1,336.3	996.9	7,596.15	10,329.74
Hamilton.....	20.50	27.40	26,066,061.89	191,326.2	142,729.2	1,087,563.36	842,126.42
Hanover.....	27.00	36.10	305,628.34	2,346.9	1,750.8	13,340.69	13,603.93
Harriston.....	34.50	46.20	166,432.05	787.5	587.5	4,476.61	6,447.50
Harrow.....	33.50	44.90	177,872.71	863.3	644.0	4,907.13	6,596.59
Hastings.....	37.00	49.60	44,262.97	239.8	178.9	1,363.12	1,398.92
Havelock.....	39.00	52.20	61,494.09	295.4	220.4	1,679.42	1,820.39
Hensall.....	37.50	50.20	86,400.55	387.1	288.8	2,200.59	3,041.91
Hespeler.....	24.00	32.10	609,753.84	4,083.8	3,046.5	23,213.63	19,548.54

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
22,923.50	4,753.12	12,941.26	5,788.93	248.11	88,698.37	89,711.19	1,012.82
11,361.76	2,518.75	6,108.07	2,869.23	116.67	45,439.04	46,951.79	1,512.75
4,257.03	1,146.53	2,193.13	1,075.05	41.90	17,104.91	21,894.03	4,789.12
2,448.07	605.53	1,068.85	618.19	19.11	8,883.11	9,689.73	806.62
99,024.26	20,727.77	54,518.87	25,006.91	1,042.26	373,380.44	401,897.84	28,517.40
13,296.56	2,902.61	6,915.33	3,357.85	130.69	49,826.20	59,970.36	10,144.16
1,937.47	514.08	1,017.54	489.28	19.43	7,885.89	10,317.16	2,431.27
927.53	263.90	446.43	234.23	8.42	3,636.22	5,278.18	1,641.96
5,415.88	1,314.17	2,443.83	1,367.72	44.40	19,366.98	21,068.18	1,701.20
1,853.51	449.98	830.72	468.08	15.12	6,687.21	7,662.51	975.30
2,721.54	735.58	959.03	687.32	16.57	8,836.17	10,393.00	1,556.83
408.71	113.88	132.83	103.21	2.26	1,226.30	1,413.55	187.25
7,196.96	1,711.88	3,134.74	1,817.51	56.19	25,182.44	27,540.52	2,358.08
108,010.87	23,065.89	59,109.48	27,276.36	1,124.57	410,504.98	433,639.51	23,134.53
9,718.38	2,318.37	4,459.90	2,454.25	81.81	36,605.06	39,507.56	2,902.50
14,326.80	3,295.79	7,010.48	3,618.04	130.11	52,312.45	57,514.62	5,202.17
1,786.53	592.73	661.63	451.25	11.71	5,451.01	7,261.03	1,810.02
1,043.07	288.64	516.41	263.41	9.89	3,915.73	6,201.04	2,285.31
2,461.61	541.33	1,345.20	621.64	25.86	9,827.76	11,649.03	1,821.27
8,416.46	2,188.22	3,060.49	2,125.51	51.16	27,062.46	30,047.70	2,985.24
50,449.86	10,228.59	28,632.93	12,740.24	550.51	190,965.61	194,423.01	3,457.40
318.36	68.15	184.47	80.46	3.56	1,581.48	1,261.37	(320.11)
87,956.49	18,760.05	47,358.83	22,212.00	898.78	328,981.00	324,977.68	(4,003.32)
19,700.27	4,649.40	9,258.86	4,975.05	170.68	71,405.74	79,551.45	8,145.71
3,758.29	1,093.43	1,125.33	949.14	17.96	11,266.30	11,266.30	.....
20,743.16	5,085.04	8,966.83	5,238.52	162.48	76,233.79	84,902.58	8,668.79
1,933.82	595.43	841.60	488.38	15.54	7,322.45	9,746.86	2,424.41
1,380.96	408.97	373.11	348.77	6.10	3,726.70	3,730.23	3.53
9,300.54	2,090.82	5,627.89	2,348.69	110.91	39,763.13	44,633.64	4,870.51
7,924.10	1,789.64	4,158.51	2,001.12	78.92	31,776.79	32,988.84	1,212.05
98,468.90	21,015.78	53,260.58	24,866.74	1,008.78	369,157.89	373,235.15	4,077.26
9,612.92	2,283.75	4,523.29	2,427.61	82.99	36,856.45	37,382.37	525.92
1,060,969.45	214,493.94	616,095.31	267,928.78	11,881.66	4,101,058.92	3,910,780.54	(190,278.38)
12,440.02	2,750.98	7,446.88	3,141.66	145.75	52,869.91	63,204.69	10,334.78
6,774.30	1,697.37	2,765.69	1,710.80	48.91	23,921.18	27,144.51	3,223.33
7,239.97	1,767.65	3,018.40	1,828.38	53.61	25,411.73	28,913.75	3,502.02
1,801.64	529.80	805.34	455.09	14.89	6,368.80	8,871.91	2,503.11
2,503.00	788.63	1,009.17	632.24	18.35	8,451.20	11,507.25	3,056.05
3,516.77	919.05	1,350.19	888.12	24.04	11,940.67	14,497.94	2,557.27
24,818.87	5,293.56	13,363.35	6,267.61	253.61	92,759.17	97,792.31	5,033.14

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commis- sion during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating mainten- ance and adminis- trative expenses
	\$ c.	\$ c.	\$ c.			\$ c.	\$ c.
Highgate.....	36.50	48.90	24,692.72	129.0	96.2	733.02	1,302.61
Holstein.....	39.00	52.20	11,923.66	39.8	29.7	226.31	30.84
Humberstone.....	24.00	32.10	125,633.19	856.2	638.7	4,866.75	4,589.84
Huntsville.....	28.00	37.50	296,566.62	1,996.1	1,489.1	11,346.60	12,209.51
Ingersoll.....	25.00	33.50	700,547.18	4,436.5	3,309.6	25,218.37	23,608.44
Iroquois.....	25.50	34.10	61,273.47	456.4	340.5	2,594.51	2,345.03
Jarvis.....	34.50	46.20	50,415.57	232.3	173.3	1,320.51	2,316.63
Kemptville.....	32.00	42.90	107,907.51	629.8	469.8	3,579.78	5,230.04
Kincardine.....	35.50	47.50	217,672.87	1,328.1	990.8	7,549.67	9,171.24
Kingston.....	22.50	30.10	2,981,095.01	23,292.8	17,376.4	132,403.71	112,966.87
Kingsville.....	32.50	43.50	187,385.49	920.9	687.0	5,234.78	6,946.57
Kirkfield.....	39.00	52.20	14,186.39	45.3	33.8	257.55	397.27
Kitchener.....	22.50	30.10	5,347,003.18	37,044.2	27,635.0	210,572.26	169,860.90
Lakefield.....	25.00	33.50	113,584.48	734.6	548.0	4,175.59	4,393.91
Lambeth.....	32.00	42.90	45,296.06	235.9	176.0	1,341.08	1,265.37
Lanark.....	39.00	52.20	48,689.91	182.0	135.8	1,034.76	1,479.81
Lancaster.....	39.00	52.20	42,640.49	94.6	70.6	537.96	(115.50)
La Salle.....	31.00	41.50	117,370.68	539.1	402.2	3,064.69	4,278.35
Leamington.....	32.00	42.90	585,695.72	2,878.4	2,147.3	16,361.93	21,753.62
Lindsay.....	26.50	35.50	781,309.34	4,852.4	3,619.9	27,582.78	31,487.37
Listowel.....	30.00	40.20	393,029.06	2,086.1	1,556.2	11,857.88	13,440.70
London.....	22.50	30.10	7,094,967.95	47,769.8	35,636.3	271,540.34	232,036.17
London Twp.....	27.00	36.10	134,502.05	797.3	594.8	4,532.24	4,683.90
Long Branch.....	24.50	32.80	420,020.37	2,819.9	2,103.7	16,029.71	14,156.57
Lucan.....	31.00	41.50	63,537.92	358.2	267.2	2,036.00	2,578.17
Lucknow.....	39.00	52.20	104,258.65	555.9	414.7	3,159.92	3,848.93
Lynden.....	31.00	41.50	33,896.19	192.3	143.5	1,093.44	1,599.47
Madoc.....	39.00	52.20	88,870.63	505.4	377.0	2,872.58	3,758.53
Markdale.....	31.50	42.20	46,157.67	327.1	244.0	1,859.22	2,152.61
Markham.....	28.00	37.50	98,570.88	578.8	431.8	3,290.21	3,025.79
Marmora.....	33.00	44.20	38,329.76	217.9	162.6	1,238.94	1,787.19
Martintown.....	36.00	48.20	11,796.15	80.1	59.8	455.65	481.47
Maxville.....	39.00	52.20	36,560.12	192.8	143.8	1,095.79	1,314.68
Meaford.....	32.50	43.50	209,901.96	1,354.0	1,010.1	7,696.73	8,765.14
Merlin.....	34.00	45.50	34,156.86	161.0	120.1	915.13	1,557.58
Merritton.....	20.00	26.80	1,528,007.06	12,587.2	9,390.1	71,550.38	51,561.64
Midland.....	26.00	34.80	664,884.78	5,356.2	3,995.7	30,446.31	28,963.11
Mildmay.....	35.50	47.50	45,423.32	258.3	192.7	1,468.33	1,549.58
Millbrook.....	31.50	42.20	39,958.63	204.7	152.7	1,163.32	1,837.23
Milton.....	28.00	37.50	332,711.05	2,117.4	1,579.6	12,036.18	11,428.24

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,005.07	243.62	442.69	253.82	8.01	3,988.84	4,701.64	712.80
485.33	179.96	143.52	122.57	2.47	1,191.00	1,551.96	360.96
5,113.66	1,107.91	2,805.49	1,291.36	53.17	19,828.18	20,501.58	673.40
12,071.18	3,140.85	6,409.00	3,048.42	123.96	48,349.52	55,840.23	7,490.71
28,514.44	6,306.65	14,690.69	7,200.91	275.51	105,815.01	110,870.53	5,055.52
2,494.02	579.36	1,457.13	630.02	28.35	10,128.42	11,611.56	1,483.14
2,052.07	534.06	814.41	518.23	14.43	7,570.34	8,008.20	437.86
4,392.17	1,255.57	2,115.46	1,109.47	39.11	17,721.60	20,154.23	2,432.63
8,859.96	2,484.24	4,354.24	2,237.39	82.48	34,739.22	47,064.37	12,325.15
121,339.80	26,718.88	73,786.31	30,652.49	1,446.52	499,314.58	523,029.52	23,714.94
7,627.17	1,851.06	3,209.33	1,926.16	57.19	26,852.26	29,882.86	3,030.60
577.43	216.84	167.96	145.82	2.81	1,765.68	1,765.68	.....
217,639.59	45,187.36	120,546.43	54,961.24	2,300.50	821,068.28	831,812.94	10,744.66
4,623.24	1,193.29	2,413.22	1,167.89	45.62	18,012.76	18,357.68	344.92
1,843.69	452.34	802.68	465.60	14.65	6,185.41	7,550.67	1,365.26
1,981.83	704.59	654.20	500.58	11.30	6,367.07	7,088.53	721.46
1,735.60	704.61	377.21	438.37	5.88	3,684.13	3,684.13	.....
4,777.35	1,195.96	1,921.43	1,206.48	33.48	16,477.74	16,690.67	212.93
23,839.63	5,785.71	10,031.14	6,020.46	178.75	83,971.24	92,120.74	8,149.50
31,801.71	8,669.80	15,958.77	8,033.24	301.34	123,835.01	128,505.68	4,670.67
15,997.50	3,795.80	7,166.57	4,040.00	129.55	56,428.00	62,561.14	6,133.14
288,787.17	61,182.81	156,414.64	72,928.51	2,966.59	1,085,856.23	1,072,651.30	(13,204.93)
5,474.65	1,256.67	2,667.35	1,382.54	49.51	20,046.86	21,472.80	1,425.94
17,096.13	3,692.89	9,231.34	4,317.35	175.12	64,699.11	69,001.88	4,302.77
2,586.19	610.16	1,213.33	653.11	22.24	9,699.20	11,086.98	1,387.78
4,243.65	1,296.56	1,854.57	1,071.65	34.52	15,509.80	21,649.00	6,139.20
1,379.68	328.13	648.82	348.42	11.95	5,409.91	5,953.93	544.02
3,617.31	1,052.05	1,694.28	913.73	31.38	13,939.86	19,679.06	5,739.20
1,878.76	452.98	1,046.53	474.48	20.31	7,884.89	10,294.64	2,409.75
4,012.14	926.19	1,938.24	1,013.21	35.95	14,241.73	16,191.44	1,949.71
1,560.14	453.75	730.75	394.09	13.54	6,178.40	7,186.82	1,008.42
480.14	121.96	260.15	121.29	4.98	1,925.64	2,880.43	954.79
1,488.11	453.25	656.58	375.90	11.97	5,396.28	7,504.32	2,108.04
8,543.66	2,301.03	4,401.50	2,157.58	84.09	33,949.73	43,940.11	9,990.38
1,390.29	353.16	562.70	351.11	10.00	5,139.97	5,462.60	322.63
62,194.62	11,864.34	39,746.37	15,706.00	781.69	253,405.04	251,654.15	(1,750.89)
27,062.87	5,872.17	16,749.89	6,834.25	332.63	116,261.23	139,049.98	22,788.75
1,848.87	536.75	855.55	466.91	16.04	6,742.03	9,155.09	2,413.06
1,626.44	503.55	709.51	410.83	12.71	6,263.59	6,443.47	179.88
13,542.37	3,025.22	6,947.88	3,419.94	131.50	50,531.33	59,235.29	8,703.96

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	\$ c.	\$ c.	\$ c.			\$ c.	\$ c.
Milverton.....	30.50	40.80	112,434.20	573.1	427.5	3,257.45	3,774.53
Mimico.....	23.00	30.80	562,607.80	4,008.3	2,990.2	22,784.63	18,156.09
Mitchell.....	28.00	37.50	214,561.07	1,237.5	923.2	7,034.57	7,508.77
Moorefield.....	39.00	52.20	30,228.17	103.1	76.9	585.96	762.36
Morrisburg.....	28.00	37.50	100,617.40	697.7	520.5	3,966.14	3,815.02
Mount Brydges....	31.50	42.20	27,630.58	146.1	109.1	831.32	1,099.41
Mount Forest.....	38.50	51.60	148,715.96	838.7	625.7	4,767.69	6,064.50
Napanee.....	25.50	34.10	300,714.95	2,072.3	1,545.9	11,779.44	12,382.35
Neustadt.....	36.00	48.20	22,928.23	110.2	82.2	626.34	13.24
Newboro.....	33.00	44.20	14,419.79	48.1	35.9	273.54	308.49
Newburgh.....	26.50	35.50	6,418.68	36.9	27.5	209.53	524.88
Newbury.....	39.00	52.20	25,505.18	86.5	64.5	491.48	771.08
Newcastle.....	29.50	39.50	62,208.04	397.5	296.5	2,259.26	2,459.09
New Hamburg.....	27.50	36.80	179,961.24	989.9	738.5	5,627.20	6,685.85
Newmarket.....	27.25	36.50	442,698.25	2,751.1	2,052.3	15,638.05	14,047.87
New Toronto.....	24.50	32.80	2,085,492.16	13,177.9	9,830.7	74,907.64	74,597.54
Niagara Falls.....	17.75	23.70	1,252,173.26	12,986.6	9,688.0	73,820.31	44,724.94
Niagara.....	22.50	30.10	145,274.20	1,164.2	868.5	6,617.77	6,451.95
North York Twp....	24.00	32.10	3,218,486.28	21,665.8	16,162.7	123,156.03	100,865.17
Norwich.....	29.00	38.80	111,924.65	646.4	482.2	3,674.25	3,817.88
Norwood.....	31.50	42.20	50,493.21	326.5	243.6	1,856.22	2,012.24
Oakville.....	25.00	33.50	468,231.69	2,807.6	2,094.4	15,958.84	17,354.23
Oil Springs.....	35.00	46.90	52,089.65	207.5	154.8	1,179.54	1,682.07
Omeme.....	30.00	40.20	40,662.75	247.2	184.4	1,405.09	1,747.39
Orangeville.....	37.50	50.20	206,646.68	1,303.7	972.6	7,410.99	8,664.52
Orono.....	37.00	49.60	32,729.94	168.4	125.6	957.07	961.46
Oshawa.....	26.00	34.80	3,883,743.77	25,117.0	18,737.3	142,773.89	145,316.20
Ottawa.....	19.00	25.40	4,862,577.63	40,952.9	30,550.9	232,791.12	189,274.66
Otterville.....	33.00	44.20	44,442.07	192.2	143.4	1,092.67	949.49
Owen Sound.....	27.00	36.10	1,324,015.22	9,650.7	7,199.4	54,857.77	54,698.09
Paisley.....	39.00	52.20	47,764.67	271.4	202.5	1,543.00	2,073.03
Palmerston.....	33.00	44.20	150,360.30	745.8	556.4	4,239.64	5,648.61
Paris.....	23.00	30.80	370,577.45	2,524.6	1,883.4	14,351.07	12,570.20
Parkhill.....	39.00	52.20	90,481.32	456.7	340.7	2,596.05	4,193.59
Parry Sound.....	32.00	42.90	89,063.25	590.6	440.6	3,357.27	6,634.91
Penetanguishene....	28.50	38.20	216,259.71	1,582.7	1,180.7	8,996.66	9,403.86
Perth.....	25.00	33.50	351,741.78	2,465.2	1,839.0	14,012.73	14,986.51
Peterborough.....	22.00	29.40	3,057,154.34	23,472.6	17,510.5	133,425.95	116,336.46
Petrolia.....	32.50	43.50	280,373.02	1,223.4	912.6	6,953.80	9,275.38
Picton.....	31.50	42.20	366,254.19	2,274.6	1,696.9	12,929.96	14,722.75

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,576.42	1,108.12	1,992.44	1,155.73	35.59	15,900.28	17,443.63	1,543.35
22,899.88	4,745.20	12,969.81	5,782.97	248.92	87,587.50	92,097.90	4,510.40
8,733.30	2,017.35	4,174.78	2,205.49	76.85	31,751.11	34,619.40	2,868.29
1,230.38	345.81	382.62	310.72	6.40	3,624.25	4,013.96	389.71
4,095.44	1,020.03	2,261.70	1,034.54	43.33	16,236.20	19,517.36	3,281.16
1,124.65	273.84	499.54	284.02	9.08	4,121.86	4,605.44	483.58
6,053.20	1,788.22	2,769.64	1,528.66	52.09	23,024.00	32,287.12	9,263.12
12,240.03	3,070.19	6,753.88	3,091.95	128.69	49,446.53	52,713.90	3,267.37
933.25	301.18	369.99	235.69	6.84	2,486.53	3,961.65	1,475.12
586.93	211.63	177.29	148.25	2.99	1,709.12	1,588.52	(120.60)
261.26	75.49	122.00	65.99	2.29	1,261.44	976.25	(285.19)
1,038.14	294.79	321.51	262.18	5.37	3,184.55	3,366.53	181.98
2,532.06	661.75	1,310.62	639.63	24.68	9,887.09	11,711.16	1,824.07
7,324.98	1,750.42	3,372.84	1,849.84	61.48	26,672.61	27,177.71	505.10
18,019.19	4,024.29	9,119.57	4,550.49	170.85	65,570.31	74,909.30	9,338.99
84,885.99	19,054.03	43,770.25	21,436.68	818.37	319,470.50	322,446.09	2,975.59
50,967.33	7,762.66	39,474.82	12,870.61	806.49	230,427.16	229,605.13	(822.03)
5,913.11	1,180.02	3,619.80	1,493.25	72.30	25,348.20	26,142.65	794.45
131,002.36	27,769.25	70,774.73	33,082.53	1,345.48	487,995.55	518,821.33	30,825.78
4,555.68	1,063.20	2,181.28	1,150.48	40.14	16,482.91	18,707.94	2,225.03
2,055.23	530.46	1,072.74	519.17	20.28	8,066.34	10,281.56	2,215.22
19,058.48	4,383.48	9,296.15	4,812.96	174.35	71,038.49	70,161.56	(876.93)
2,120.21	551.24	770.97	535.44	12.89	6,852.36	7,260.01	407.65
1,655.10	455.74	821.92	418.08	15.35	6,518.67	7,414.74	896.07
8,411.16	2,284.81	4,250.81	2,124.12	80.97	33,227.38	48,825.48	15,598.10
1,332.21	404.84	570.75	336.51	10.46	4,573.30	6,231.21	1,657.91
158,080.40	40,801.49	82,513.32	39,932.85	1,559.81	610,977.96	652,056.61	41,078.65
197,921.97	39,832.23	128,596.87	49,999.44	2,543.27	840,959.56	775,993.44	(64,966.12)
1,808.93	479.56	675.91	456.83	11.94	5,475.33	6,339.96	864.63
53,891.52	13,021.30	30,736.05	13,609.45	599.32	221,413.50	259,899.72	38,486.22
1,944.17	570.81	906.12	490.97	16.86	7,544.96	10,569.72	3,024.76
6,120.13	1,501.18	2,596.01	1,545.58	46.32	21,697.47	24,590.98	2,893.51
15,083.65	3,183.11	8,235.93	3,809.13	156.79	57,389.88	58,007.87	617.99
3,682.87	916.60	1,566.52	930.06	28.36	13,914.05	17,784.60	3,870.55
3,625.15	954.99	1,888.84	915.49	36.68	17,413.33	18,899.75	1,486.42
8,802.44	2,121.59	5,033.57	2,222.92	98.29	36,679.33	45,101.53	8,422.20
14,316.98	3,535.37	7,995.80	3,616.61	153.09	58,617.09	61,606.31	2,989.22
124,435.65	27,916.59	74,551.32	31,434.66	1,457.68	509,558.31	514,807.84	5,249.53
11,412.05	2,858.57	4,411.95	2,882.02	75.97	37,869.74	39,777.29	1,907.55
14,907.68	4,064.14	7,480.99	3,765.74	141.26	58,012.52	71,607.80	13,595.28

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each
it by the Commission; the amount billed by the Commission against
or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	\$ c.	\$ c.	\$ c.			\$ c.	\$ c.
Plattsville.....	36.00	48.20	63,029.85	308.1	229.9	1,751.78	3,077.32
Point Edward.....	32.00	42.90	566,767.93	2,501.1	1,865.8	14,216.97	25,268.46
Port Colborne.....	24.00	32.10	340,214.40	2,318.5	1,729.6	13,179.15	12,207.60
Port Credit.....	25.50	34.10	227,150.04	1,526.1	1,138.5	8,675.10	7,812.93
Port Dalhousie.....	24.50	32.80	193,101.28	1,342.7	1,001.6	7,631.96	6,986.49
Port Dover.....	31.00	41.50	159,109.76	858.1	640.1	4,877.42	6,895.99
Port Elgin.....	34.00	45.50	156,919.51	862.3	643.2	4,901.04	6,303.26
Port Hope.....	26.00	34.80	670,547.25	4,284.3	3,196.0	24,352.80	26,026.83
Port McNicoll.....	32.00	42.90	21,365.20	158.4	118.1	899.89	1,078.56
Port Perry.....	39.00	52.20	94,222.07	526.4	392.6	2,991.52	3,832.78
Port Rowan.....	34.50	46.20	50,994.89	169.0	126.0	960.10	1,571.06
Port Stanley.....	32.50	43.50	228,879.14	1,094.6	816.6	6,222.31	10,077.24
Prescott.....	25.00	33.50	251,707.14	1,710.6	1,276.0	9,722.79	9,205.11
Preston.....	23.00	30.80	799,120.27	5,453.4	4,068.2	30,998.74	25,646.51
Priceville.....	39.00	52.20	5,066.94	25.1	18.7	142.49	254.87
Princeton.....	37.50	50.20	58,015.73	210.3	156.9	1,195.54	1,559.91
Queenston.....	23.00	30.80	24,122.00	196.6	146.7	1,117.82	754.81
Renfrew.....	28.00	37.50	185,839.42	1,202.9	897.4	6,838.07	10,280.19
Richmond.....	39.00	52.20	60,749.43	136.3	101.7	774.94	(113.23)
Richmond Hill.....	24.00	32.10	141,949.89	904.6	674.8	5,141.82	4,313.17
Ridgetown.....	30.50	40.80	133,526.69	697.3	520.2	3,963.80	5,518.15
Ripley.....	39.00	52.20	37,885.32	153.8	114.7	873.99	1,042.87
Riverside.....	30.00	40.20	398,163.31	2,037.5	1,520.0	11,582.05	13,742.14
Rockwood.....	31.00	41.50	40,922.68	225.7	168.4	1,283.17	1,501.15
Rodney.....	39.00	52.20	57,633.22	235.0	175.3	1,335.75	2,021.55
Rosseau.....	39.00	52.20	40,094.00	64.9	48.4	368.79	(875.18)
Russell.....	39.00	52.20	45,625.77	149.3	111.4	848.85	1,396.99
St. Catharines.....	19.50	26.10	3,872,866.96	32,030.4	23,894.7	182,072.06	133,459.34
St. Clair Beach.....	35.00	46.90	31,433.23	148.9	111.1	846.56	1,101.61
St. George.....	35.00	46.90	51,775.18	268.4	200.2	1,525.48	1,586.23
St. Jacobs.....	27.50	36.80	68,771.92	443.0	330.5	2,518.33	2,444.83
St. Marys.....	30.00	40.20	475,502.88	2,482.3	1,851.8	14,110.27	15,352.55
St. Thomas.....	23.50	31.50	1,689,621.55	10,547.8	7,868.7	59,957.69	55,522.23
Sarnia.....	28.00	37.50	2,980,439.53	14,145.6	10,552.6	80,408.40	95,844.64
Scarborough Twp....	25.00	33.50	1,716,761.99	11,002.8	8,208.1	62,543.83	55,438.55
Seaforth.....	29.00	38.80	242,311.04	1,397.6	1,042.6	7,944.36	8,460.40
Shelburne.....	36.50	48.90	75,787.35	478.2	356.7	2,717.97	3,370.04
Simcoe.....	25.00	33.50	543,372.90	3,505.0	2,614.7	19,923.45	18,755.91
Smiths Falls.....	23.50	31.50	650,828.61	4,858.6	3,624.5	27,617.82	25,377.89
Smithville.....	29.50	39.50	102,150.21	614.7	458.6	3,494.44	4,413.87

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,565.51	649.13	1,062.04	647.89	19.14	9,772.81	11,080.49	1,307.68
23,069.21	5,749.82	8,999.38	5,825.91	155.32	83,285.07	80,041.88	(3,243.19)
13,847.78	3,000.22	7,597.27	3,497.02	143.98	53,473.02	55,520.27	2,047.25
9,245.71	1,995.16	4,995.07	2,334.86	94.78	35,153.61	38,821.11	3,667.50
7,859.82	1,706.51	4,353.20	1,984.87	83.38	30,606.23	32,852.85	2,246.62
6,476.26	1,556.45	2,916.90	1,635.50	53.29	24,411.81	26,566.12	2,154.31
6,387.11	1,914.89	2,862.68	1,613.00	53.54	24,035.52	29,267.12	5,231.60
27,293.35	7,133.12	14,127.27	6,894.67	266.05	106,094.09	111,220.82	5,126.73
869.63	207.02	504.43	219.61	9.83	3,788.97	5,064.99	1,276.02
3,835.13	1,141.12	1,744.59	968.53	32.68	14,546.35	20,494.25	5,947.90
2,075.65	594.49	633.42	524.20	10.49	6,369.41	5,821.26	(548.15)
9,316.09	2,372.86	3,846.23	2,352.53	67.98	34,255.24	35,519.88	1,264.64
10,245.26	2,602.39	5,551.00	2,588.04	106.22	40,020.81	42,749.40	2,728.59
32,526.67	6,847.36	17,805.39	8,214.08	338.66	122,377.41	125,299.22	2,921.81
206.24	65.67	87.88	52.09	1.56	810.80	975.81	165.01
2,361.42	662.66	766.23	596.36	13.06	7,155.18	7,876.21	721.03
981.84	193.22	615.19	247.95	12.20	3,923.03	4,517.31	594.28
7,564.24	2,002.34	3,963.90	1,910.78	74.71	32,634.23	33,652.60	1,018.37
2,472.69	1,003.49	538.85	624.53	8.47	5,309.74	5,309.74	.....
5,777.80	1,270.33	2,985.73	1,459.10	56.17	21,004.12	21,659.42	655.30
5,434.95	1,317.35	2,393.83	1,372.53	43.31	20,043.92	21,222.62	1,178.70
1,542.05	535.29	535.02	389.42	9.55	4,928.19	5,988.15	1,059.96
16,206.48	3,854.90	7,058.96	4,092.77	126.53	56,663.83	61,104.87	4,441.04
1 665.68	399.00	766.38	420.65	14.02	6,050.05	6,987.61	937.56
2,345.85	633.83	846.57	592.37	14.59	7,790.51	9,149.00	1,358.49
1,631.95	696.71	285.98	412.15	4.03	2,524.43	2,524.43	.....
1,857.11	681.62	550.39	469.07	9.27	5,813.30	5,813.30	.....
157,637.68	29,818.91	101,038.93	39,808.03	1,989.14	645,824.09	623,652.13	(22,171.96)
1,279.43	315.89	521.64	323.10	9.25	4,397.48	5,212.30	814.82
2,107.41	519.69	913.78	532.20	16.67	7,201.46	9,389.68	2,188.22
2,799.23	611.07	1,455.84	706.90	27.51	10,563.71	12,160.94	1,597.23
19,354.44	4,617.91	8,607.77	4,887.73	154.16	67,084.83	74,440.41	7,355.58
68,772.83	15,310.76	35,138.55	17,367.57	655.04	252,724.67	247,864.82	(4,859.85)
121,313.12	29,223.86	49,739.78	30,636.40	878.46	408,044.66	395,723.39	(12,321.27)
69,877.53	15,372.72	36,252.13	17,646.47	683.29	257,814.52	274,972.74	17,158.22
9,862.81	2,278.26	4,714.71	2,490.73	86.79	35,838.06	40,451.03	4,612.97
3,084.78	837.95	1,558.98	779.02	29.69	12,378.43	17,443.17	5,064.74
22,116.96	4,797.35	11,534.67	5,585.30	217.66	82,931.30	87,591.80	4,660.50
26,490.74	6,139.61	15,596.90	6,691.93	301.73	108,216.62	114,173.07	5,956.45
4,157.83	982.47	2,028.78	1,050.00	38.17	16,165.56	18,113.68	1,948.12

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	\$ c.	\$ c.	\$ c.			\$ c.	\$ c.
Southampton	32.50	43.50	155,038.08	874.4	652.3	4,970.38	6,262.26
Springfield	39.00	52.20	37,638.90	118.8	88.6	675.11	391.49
Stamford Twp.	17.75	23.70	489,727.84	5,079.1	3,789.0	28,871.30	17,668.15
Stayner	32.50	43.50	70,249.44	481.5	359.2	2,737.02	3,071.81
Stirling	23.00	30.80	69,498.64	543.0	405.1	3,086.74	2,699.07
Stoney Creek	23.00	30.80	101,809.70	639.8	477.3	3,636.92	4,110.55
Stouffville	31.00	41.50	118,938.62	681.2	508.2	3,872.37	3,548.26
Stratford	25.00	33.50	1,578,648.91	9,708.2	7,242.3	55,184.62	50,808.10
Strathroy	26.50	35.50	343,061.62	2,071.3	1,545.2	11,774.07	12,842.05
Streetsville	29.00	38.80	123,927.18	776.5	579.3	4,414.13	4,458.28
Sunderland	39.00	52.20	45,004.18	242.0	180.5	1,375.37	1,417.34
Sutton	38.00	50.90	126,357.22	583.4	435.2	3,316.13	4,037.33
Swansea	25.00	33.50	545,130.51	3,781.1	2,820.7	21,493.07	25,510.07
Tara	36.50	48.90	37,711.87	211.2	157.6	1,200.88	1,665.64
Tavistock	29.00	38.80	154,075.99	863.8	644.4	4,910.18	5,315.68
Tecumseh	32.00	42.90	158,066.60	776.8	579.5	4,415.66	5,504.66
Teeswater	39.00	52.20	54,846.93	302.9	226.0	1,722.07	2,461.83
Thamesford	33.00	44.20	68,443.19	366.4	273.4	2,083.25	2,926.82
Thamesville	31.50	42.20	70,435.92	347.9	259.6	1,978.09	3,091.44
Thedford	39.00	52.20	59,354.94	222.5	166.0	1,264.88	1,695.45
Thornbury	35.00	46.90	44,303.75	199.1	148.6	1,132.29	1,447.89
Thorndale	39.00	52.20	39,213.48	170.5	127.2	969.24	811.19
Thornton	39.00	52.20	22,803.92	64.2	47.9	364.99	363.48
Thorold	22.50	30.10	485,349.31	3,899.7	2,909.2	22,167.42	16,671.85
Tilbury	30.00	40.20	254,706.91	1,330.2	992.3	7,561.10	10,339.62
Tillsonburg	26.50	35.50	398,084.94	2,448.3	1,826.4	13,916.74	14,509.31
Toronto	21.50	28.80	59,502,014.54	425,424.1	317,366.4	2,418,258.28	1,846,791.75
Toronto Twp	26.00	34.80	1,198,627.95	7,836.9	5,846.3	44,547.44	42,026.41
Tottenham	39.00	52.20	33,938.45	139.7	104.2	793.98	1,481.25
Trafalgar Twp.	27.50	36.80	189,386.57	1,147.1	855.7	6,520.23	7,147.04
Trenton	21.00	28.10	938,556.34	7,748.0	5,780.0	44,042.59	34,716.75
Tweed	39.00	52.20	121,221.00	580.7	433.2	3,300.96	4,475.10
Uxbridge	39.00	52.20	117,317.61	632.6	471.9	3,595.77	4,714.40
Victoria Harbour	33.50	44.90	27,187.86	161.8	120.7	919.71	1,331.24
Walkerton	28.00	37.50	207,330.91	1,592.1	1,187.7	9,050.00	9,278.88
Wallaceburg	30.00	40.20	1,407,753.81	7,786.5	5,808.7	44,260.96	52,516.43
Wardsville	39.00	52.20	33,623.24	105.4	78.6	598.91	851.94
Warkworth	34.00	45.50	27,382.19	129.2	96.4	734.56	951.61
Waterdown	26.00	34.80	74,400.24	467.6	348.8	2,657.77	3,033.97
Waterford	27.00	36.10	97,981.98	605.4	451.6	3,441.09	3,521.80

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private com- panies	Amount chargeable to each municipi- pality in respect of power supplied to it in the year	Amount billed against each municipi- pality at interim rates	Amount remaining to be credited or charged to each municipi- pality Credited (Charged)
Interest	Provision for deprecia- tion	Provision for contin- gencies and obsolescence and frequen- cy standard- ization	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,310.53	1,864.25	2,887.40	1,593.64	54.30	23,942.76	28,374.72	4,431.96
1,532.02	444.99	444.58	386.89	7.38	3,882.46	4,626.63	744.17
19,933.44	3,035.99	15,438.70	5,033.73	315.42	90,296.73	89,799.09	(497.64)
2,859.37	732.48	1,560.48	722.10	29.90	11,713.16	15,623.58	3,910.42
2,828.81	622.90	1,720.20	714.61	33.72	11,706.05	12,475.84	769.79
4,143.97	931.30	2,120.40	1,046.50	39.73	16,029.37	15,331.57	(697.80)
4,841.17	1,132.92	2,288.32	1,222.58	42.31	16,947.93	21,088.78	4,140.85
64,255.90	14,295.03	32,409.44	16,226.89	602.89	233,782.87	242,615.75	8,832.88
13,963.67	3,171.60	6,917.14	3,526.32	128.63	52,323.48	54,853.37	2,529.89
5,044.22	1,137.42	2,570.83	1,273.84	48.22	18,946.94	22,478.34	3,531.40
1,831.81	557.54	804.83	462.61	15.03	6,464.53	9,423.09	2,958.56
5,143.13	1,328.98	2,032.84	1,298.85	36.23	17,193.49	22,151.14	4,957.65
22,188.50	4,651.59	12,300.91	5,603.34	234.81	91,982.29	94,492.53	2,510.24
1,534.99	454.74	706.51	387.64	13.12	5,963.52	7,705.87	1,742.35
6,271.37	1,471.25	2,936.33	1,583.76	53.64	22,542.21	25,001.03	2,458.82
6,433.80	1,561.46	2,706.53	1,624.79	48.24	22,295.14	24,861.87	2,566.73
2,232.44	667.33	1,019.60	563.78	18.81	8,685.86	11,798.44	3,112.58
2,785.85	674.56	1,250.14	703.53	22.76	10,446.91	12,083.42	1,636.51
2,866.96	713.89	1,209.58	724.02	21.61	10,605.59	10,955.89	350.30
2,415.93	642.32	835.29	610.12	13.82	7,477.81	8,663.36	1,185.55
1,803.30	600.18	681.49	455.40	12.37	6,132.92	6,969.20	836.28
1,596.11	421.76	596.19	403.08	10.59	4,808.16	6,638.38	1,830.22
928.19	360.00	242.80	234.40	3.99	2,497.85	2,497.85	.....
19,755.22	3,850.73	12,382.92	4,988.79	242.18	80,059.11	87,567.58	7,508.47
10,367.36	2,512.89	4,566.32	2,618.16	82.61	38,048.06	39,891.56	1,843.50
16,203.29	3,648.54	8,115.55	4,091.91	152.04	60,637.38	64,838.72	4,201.34
2,421,916.28	493,689.20	1,375,975.23	611,612.84	26,419.54	9,194,663.12	9,140,153.04	(54,510.08)
48,787.87	10,719.05	25,815.85	12,320.61	486.69	184,703.92	203,449.93	18,746.01
1,381.40	477.22	482.98	348.86	8.67	4,974.36	5,440.08	465.72
7,708.62	1,765.46	3,778.22	1,946.67	71.24	28,937.48	31,490.96	2,553.48
38,202.15	7,851.55	24,392.01	9,650.65	481.16	159,336.86	162,417.85	3,080.99
4,934.07	1,581.81	1,975.58	1,246.30	36.06	17,549.88	22,611.56	5,061.68
4,775.19	1,450.95	2,103.83	1,205.94	39.28	17,885.36	24,633.95	6,748.59
1,106.63	316.07	529.99	279.47	10.05	4,493.16	5,421.19	928.03
8,439.01	1,866.20	5,051.78	2,131.22	98.87	35,915.96	44,539.15	8,623.19
57,299.94	13,474.64	26,415.46	14,470.38	483.55	208,921.36	233,507.95	24,586.59
1,368.57	396.48	397.99	345.64	6.54	3,966.07	4,100.24	134.17
1,114.54	359.92	449.57	281.51	8.02	3,899.73	4,387.48	487.75
3,028.32	680.58	1,549.53	764.76	29.04	11,743.97	12,137.00	393.03
3,988.17	889.09	2,014.67	1,007.16	37.59	14,899.57	16,301.66	1,402.09

SOUTHERN ONTARIO

Embracing Niagara, Georgian Bay,

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of	
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses
	\$ c.	\$ c.	\$ c.			\$ c.	\$ c.
Waterloo.....	23.00	30.80	1,226,190.96	8,404.6	6,269.8	47,774.41	39,583.16
Watford.....	35.50	47.50	147,107.23	599.2	447.0	3,406.04	5,322.09
Waubashene....	30.00	40.20	29,741.23	220.4	164.4	1,252.69	1,468.43
Welland.....	19.50	26.10	1,485,577.86	12,346.1	9,210.2	70,179.59	51,721.90
Wellesley.....	32.00	42.90	42,382.03	221.7	165.4	1,260.31	1,667.49
Wellington.....	31.00	41.50	71,247.40	442.5	330.1	2,515.26	2,974.44
West Lorne.....	35.50	47.50	143,634.03	697.6	520.4	3,965.33	6,029.17
Weston.....	22.50	30.10	889,149.78	6,274.0	4,680.4	35,663.57	27,241.54
Westport.....	39.00	52.20	61,064.64	184.3	137.5	1,047.71	1,389.55
Wheatley.....	39.00	52.20	112,046.51	437.1	326.1	2,484.81	3,413.91
Whitby.....	25.50	34.10	339,975.11	2,242.4	1,672.8	12,746.30	12,739.98
Warton.....	39.00	52.20	143,170.92	740.9	552.7	4,211.45	5,737.35
Williamsburg....	28.50	38.20	20,850.50	141.7	105.7	805.40	795.41
Winchester.....	28.50	38.20	123,391.35	733.0	546.8	4,166.47	4,687.11
Windermere.....	39.00	52.20	31,715.28	80.7	60.2	458.71	240.69
Windsor.....	25.00	33.50	11,223,048.65	63,660.0	47,490.4	361,865.84	348,188.24
Wingham.....	37.50	50.20	233,780.74	1,390.3	1,037.2	7,903.22	9,838.33
Woodbridge.....	27.50	36.80	220,302.89	1,369.0	1,021.3	7,782.07	7,077.91
Woodstock.....	24.50	32.80	1,636,636.39	10,941.4	8,162.3	62,194.82	53,047.34
Woodville.....	39.00	52.20	24,907.69	106.6	79.5	605.77	615.47
Wyoming.....	39.00	52.20	66,400.35	228.4	170.4	1,298.41	1,495.11
York Twp.....	23.00	30.80	4,330,160.90	31,218.1	23,288.7	177,454.49	133,533.97
Zurich.....	39.00	52.20	58,208.59	225.5	168.2	1,281.64	2,277.55
Ontario Central Reformatory...	27.00	36.19	51,049.68	321.2	239.6	1,825.70	1,636.30
Totals—Municipalities.....			220,505,858.10	1,511,936.2	1,127,904.4	8,594,369.57	7,395,636.04
Totals—Rural power district...			38,053,872.49	219,572.4	163,801.0	1,267,352.71	1,397,250.40
Totals—Companies.....			78,583,182.90	588,820.4	439,260.0	3,347,059.13	2,567,034.58
Totals—Local distribution sys..			684,752.31	2,141.8	1,597.8	12,174.88	32,414.72
			337,827,665.80				
Non-operating capital.....			108,860,083.31				
Grand Totals.....			446,687,749.11	2,322,470.8	1,732,563.2	13,220,956.29	11,392,335.74

Contingencies and obsolescence
Frequency standardization....

(1) Operating, maintenance and administrative expenses have been credited with amounts totalling \$6,664.45 required to reduce the cost of power to certain municipalities to a maximum of \$52.25 per kw.

SYSTEM

S.O.—COST OF POWER

and Eastern Ontario Divisions

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

operating costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited or charged to each municipality Credited (Charged)
Interest	Provision for depreciation	Provision for contingencies and obsolescence and frequency standardization	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
49,909.77	10,443.44	27,388.93	12,603.90	521.94	188,225.55	193,110.35	4,884.80
5,987.72	1,543.34	2,174.89	1,512.16	37.21	19,983.45	21,231.65	1,248.20
1,210.56	288.17	702.18	305.71	13.69	5,241.43	6,609.98	1,368.55
60,467.62	11,444.40	38,937.35	15,269.87	766.71	248,787.44	240,385.39	(8,402.05)
1,725.08	422.45	757.44	435.65	13.77	6,282.19	7,095.12	812.93
2,899.99	790.60	1,455.28	732.55	27.48	11,395.60	13,699.15	2,303.55
5,846.35	1,479.58	2,446.14	1,476.33	43.32	21,286.22	24,718.21	3,431.99
36,191.15	7,413.81	20,309.24	9,139.46	389.63	136,348.40	140,878.42	4,530.02
2,485.52	924.47	693.31	627.78	11.45	7,179.79	7,179.79	
4,560.64	1,216.91	1,582.06	1,151.76	27.15	14,437.24	17,022.11	2,584.87
13,838.04	3,516.66	7,313.80	3,495.58	139.25	53,789.61	57,042.76	3,253.15
5,827.50	1,808.10	2,485.57	1,471.67	46.01	21,587.65	28,853.50	7,265.85
848.68	215.57	459.82	214.38	8.80	3,348.06	4,039.38	691.32
5,022.41	1,382.24	2,456.13	1,268.67	45.52	19,028.55	20,886.69	1,858.14
1,290.91	512.11	311.40	326.02	5.01	3,144.85	3,144.85	
456,812.84	102,619.47	215,478.22	115,362.11	3,953.41	1,604,280.13	1,590,929.93	(13,350.20)
9,515.60	2,707.37	4,579.96	2,403.05	86.34	37,033.87	52,066.20	15,032.33
8,967.01	2,002.64	4,538.23	2,264.49	85.03	32,717.38	37,582.84	4,865.46
66,616.17	14,219.90	35,895.61	16,822.85	679.48	249,476.17	267,722.17	18,246.00
1,013.82	344.86	368.15	256.05	6.62	3,210.74	4,149.73	938.99
2,702.70	739.47	856.82	682.55	14.19	7,789.25	8,894.60	1,105.35
176,250.96	35,512.11	100,729.61	44,509.09	1,938.69	669,928.92	717,291.80	47,362.88
2,369.27	650.79	817.13	598.33	14.00	8,008.71	8,781.90	773.19
2,077.88	462.63	1,064.76	524.73	19.95	7,611.95	8,672.92	1,060.97
8,975,271.37	1,938,794.30	4,919,843.67	2,266,646.17	93,893.72	34,184,454.84	34,955,630.15	771,175.31
1,548,910.47	385,168.33	736,771.11	391,180.47	13,635.80	5,740,269.29	5,740,269.29	
3,198,578.93	670,563.30	1,887,287.30	807,774.80	(140,048.41)	12,338,249.63	12,338,249.63	
27,871.54	10,208.82	9,978.93	7,039.06	32,518.89	132,206.84	132,206.84	
13,750,632.31	3,004,734.75	7,553,881.01	3,472,640.50		52,395,180.60	53,166,355.91	771,175.31
		1,160,722.80					
		6,393,158.21					
		7,553,881.01					

(2) The provision for frequency standardization included in the cost of power for the year was \$3.69 per kw on all municipal, rural power district and company loads.

SOUTHERN ONTARIO SYSTEM

Statement summarizing the amounts credited or charged to Municipalities which are supplied with power at cost, as a result of annual adjustments of interim billings to the amounts chargeable in respect of power supplied in each year

		\$	c.
Amounts at credit of municipalities at October 31, 1948.....		2,596,798.	04
Less payments to municipalities and adjustments made during the year ended October 31, 1949.....		2,596,798.	04
Balance of annual adjustments to October 31, 1948.....			Nil
Amounts credited or charged to municipalities upon adjustment of interim billings for power supplied in the year ended October 31, 1949, as detailed on cost of power statement for the year—			
Credited.....	\$1,175,297.57		
Charged.....	404,122.26		
		771,175.	31
Amounts at credit or debit of municipalities at October 31, 1949—			
At Credit.....	\$1,175,297.57		
At Debit.....	404,122.26		
		771,175.	31

SOUTHERN ONTARIO SYSTEM

S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1949

Municipality	Period of years ended Oct. 31, 1949	Amount	Municipality	Period of years ended Oct. 31, 1949	Amount
		\$ c.			\$ c.
Acton.....	32 years	147,026.35	Brigden.....	27 years	21,513.15
Agincourt.....	26 "	23,262.25	Brighton.....	20 "	28,185.99
Ailsa Craig.....	29 "	27,421.74	Brockville.....	29 "	376,775.99
Alexandria.....	25 "	54,649.62	Brussels.....	26 "	25,945.90
Alliston.....	26 "	48,879.07	Burford.....	29 "	27,597.78
Almonte.....	5 "	6,646.28	Burgessville.....	28 "	10,158.59
Alvinston.....	26 "	27,576.32	Burlington.....	5 "	22,074.10
Amherstburg.....	26 "	112,393.43	Caledonia.....	32 "	44,267.74
Ancaster Township..	26 "	36,911.28	Campbellville.....	25 "	5,808.47
Apple Hill.....	25 "	6,216.96	Cannington.....	30 "	29,071.53
Arkona.....	23 "	12,514.97	Cardinal.....	20 "	16,241.71
Arnprior.....	11 "	35,381.68	Carleton Place.....	25 "	157,026.96
Arthur.....	28 "	36,099.86	Cayuga.....	25 "	20,354.03
Athens.....	21 "	13,696.37	Chatham.....	29 "	775,904.60
Aurora.....	7 "	27,987.35	Chatsworth.....	29 "	9,462.88
Aylmer.....	26 "	91,504.92	Chesley.....	28 "	69,615.22
Ayr.....	30 "	29,693.41	Chesterville.....	30 "	48,243.02
Baden.....	32 "	60,939.92	Chippawa.....	28 "	32,663.03
Barrie.....	31 "	324,820.23	Clifford.....	26 "	15,062.51
Bath.....	18 "	5,183.21	Clinton.....	30 "	90,737.22
Beachville.....	32 "	79,847.22	Cobden.....	14 "	6,856.11
Beamsville.....	13 "	18,546.13	Cobourg.....	18 "	121,195.56
Beaverton.....	30 "	38,113.19	Colborne.....	17 "	12,367.91
Beeton.....	26 "	28,029.18	Coldwater.....	31 "	26,353.46
Belle River.....	27 "	22,319.96	Collingwood.....	31 "	264,643.88
Belleville.....	21 "	401,860.44	Comber.....	29 "	32,627.04
Blenheim.....	29 "	73,561.15	Cookstown.....	26 "	10,835.12
Bloomfield.....	21 "	13,434.78	Cottam.....	23 "	9,635.36
Blyth.....	26 "	19,856.09	Courtright.....	26 "	10,877.77
Bobcaygeon.....	4 "	2,615.22	Creemore.....	30 "	22,340.69
Bolton.....	29 "	33,041.91	Dashwood.....	27 "	16,471.69
Bothwell.....	29 "	30,396.45	Delaware.....	29 "	7,053.92
Bowmanville.....	18 "	155,547.24	Delhi.....	12 "	23,197.42
Bradford.....	26 "	36,151.65	Deseronto.....	19 "	17,442.84
Braeside.....	5 "	2,588.59	Dorchester.....	30 "	14,724.48
Brampton.....	33 "	329,204.39	Drayton.....	26 "	24,498.87
Brantford.....	30 "	1,849,831.58	Dresden.....	29 "	62,795.61
Brantford Township..	26 "	88,273.40	Drumbo.....	30 "	13,032.76
Brechin.....	30 "	13,042.12	Dublin.....	27 "	10,306.95
Bridgeport.....	22 "	14,832.26	Dundalk.....	29 "	25,109.67

SOUTHERN ONTARIO SYSTEM *S.O.—SINKING FUND*

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1949

Municipality	Period of years ended Oct. 31, 1949	Amount	Municipality	Period of years ended Oct. 31, 1949	Amount
		\$ c.			\$ c.
Dundas	33 years	275,782.72	Highgate	28 years	17,420.37
Dunnville	27 "	127,191.16	Holstein	28 "	4,983.47
Durham	29 "	57,590.53	Humberstone	26 "	45,674.77
Dutton	29 "	36,704.02	Huntsville	28 "	119,923.90
East York Township	25 "	640,647.16	Ingersoll	33 "	354,658.77
Elmira	31 "	148,351.66	Iroquois	10 "	6,961.60
Elmvale	31 "	27,156.06	Jarvis	26 "	28,842.26
Elmwood	26 "	8,597.02	Kemptville	25 "	41,032.89
Elora	30 "	68,974.52	Kincardine	25 "	86,550.05
Embrow	30 "	21,255.46	Kingston	12 "	421,380.04
Erieau	26 "	15,274.22	Kingsville	26 "	80,989.50
Erie Beach	25 "	3,310.21	Kirkfield	25 "	5,945.38
Essex	26 "	64,578.05	Kitchener	33 "	2,575,654.01
Etobicoke Township	27 "	558,157.40	Lakefield	21 "	28,973.90
Exeter	28 "	85,053.12	Lambeth	29 "	18,775.36
Fergus	30 "	131,600.01	Lanark	25 "	12,913.15
Finch	22 "	9,719.83	Lancaster	25 "	11,204.28
Flesherton	29 "	12,060.42	La Salle	24 "	30,090.85
Fonthill	24 "	14,900.33	Leamington	26 "	188,860.29
Forest	27 "	69,127.66	Lindsay	21 "	226,954.30
Forest Hill	26 "	418,225.59	Listowel	28 "	157,829.17
Frankford (Sept. 1949)	1 "	107.46	London	33 "	4,574,692.00
Galt	33 "	1,079,063.83	London Township	25 "	45,349.79
Georgetown	31 "	209,749.06	Long Branch	19 "	76,302.15
Glencoe	26 "	38,915.03	Lucan	29 "	33,255.46
Goderich	30 "	236,339.58	Lucknow	25 "	41,563.25
Grand Valley	28 "	23,077.24	Lynden	29 "	22,826.94
Granton	28 "	14,504.05	Madoc	20 "	18,373.39
Gravenhurst	29 "	70,392.72	Markdale	28 "	20,271.00
Grimsby	8 "	20,301.77	Markham	26 "	39,212.07
Guelph	33 "	1,265,510.75	Marmora	21 "	12,269.27
Hagersville	31 "	140,565.08	Martintown	25 "	4,228.89
Hamilton	33 "	10,476,227.12	Maxville	25 "	17,884.59
Hanover	28 "	154,865.51	Meaford	25 "	65,833.85
Harriston	28 "	66,154.62	Merlin	26 "	20,504.92
Harrow	26 "	55,719.23	Merritton	28 "	432,118.11
Hastings	19 "	9,345.46	Midland	31 "	414,994.82
Havelock	21 "	23,190.84	Mildmay	17 "	9,373.35
Hensall	28 "	32,551.96	Millbrook	11 "	4,250.20
Hespeler	33 "	240,246.88	Milton	31 "	186,064.46

SOUTHERN ONTARIO SYSTEM

S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1949

Municipality	Period of years ended Oct. 31, 1949	Amount	Municipality	Period of years ended Oct. 31, 1949	Amount
		\$ c.			\$ c.
Milverton.....	28 years	74,981.42	Plattsville.....	30 years	18,722.09
Mimico.....	32 "	273,584.77	Point Edward.....	27 "	135,336.00
Mitchell.....	33 "	86,541.96	Port Colborne.....	28 "	191,059.14
Moorefield.....	26 "	11,866.10	Port Credit.....	32 "	83,583.27
Morrisburg.....	12 "	10,633.03	Port Dalhousie.....	28 "	76,074.71
Mount Brydges.....	29 "	14,380.79	Port Dover.....	26 "	54,030.32
Mount Forest.....	29 "	65,897.13	Port Elgin.....	19 "	33,483.72
Napanee.....	20 "	92,541.77	Port Hope.....	20 "	145,179.43
Neustadt.....	26 "	10,969.47	Port McNicoll.....	30 "	11,901.69
Newboro (Dec. 1948)	1 "	170.90	Port Perry.....	25 "	35,950.69
Newburgh (July, 1949)	1 "	83.34	Port Rowan.....	23 "	13,993.53
Newbury.....	26 "	8,107.43	Port Stanley.....	32 "	79,714.06
Newcastle.....	13 "	8,173.18	Prescott.....	30 "	101,458.75
New Hamburg.....	33 "	90,624.26	Preston.....	33 "	474,537.63
Newmarket.....	5 "	25,929.26	Priceville.....	25 "	1,833.36
New Toronto.....	30 "	934,615.75	Princeton.....	30 "	18,903.44
Niagara Falls.....	29 "	1,023,865.70	Queenston.....	26 "	13,010.30
Niagara.....	26 "	64,183.34	Renfrew.....	5 "	9,451.57
North York Township	26 "	496,147.82	Richmond.....	22 "	7,463.14
Norwich.....	32 "	66,250.07	Richmond Hill.....	25 "	43,385.97
Norwood.....	21 "	13,083.42	Ridgetown.....	29 "	79,140.47
Oakville (Jan. 1949)	1 "	6,134.12	Ripley.....	25 "	15,943.46
Oil Springs.....	26 "	42,168.91	Riverside.....	27 "	158,051.93
Omeme.....	10 "	6,161.02	Rockwood.....	31 "	20,626.80
Orangeville.....	28 "	89,333.71	Rodney.....	27 "	25,483.00
Orono.....	11 "	3,985.75	Rosseau.....	19 "	7,858.02
Oshawa.....	21 "	1,183,671.21	Russell.....	24 "	11,178.06
Ottawa.....	34 "	669,303.28	St. Catharines.....	28 "	1,431,242.33
Otterville.....	28 "	16,833.17	St. Clair Beach.....	27 "	13,225.24
Owen Sound.....	29 "	462,109.72	St. George.....	29 "	25,923.42
Paisley.....	25 "	21,127.63	St. Jacobs.....	27 "	32,293.88
Palmerston.....	28 "	81,496.52	St. Mary's.....	33 "	239,503.85
Paris.....	30 "	210,654.85	St. Thomas.....	33 "	916,166.18
Parkhill.....	26 "	36,907.30	Sarnia.....	28 "	1,178,166.08
Parry Sound.....	2 "	1,961.39	Scarborough Twp....	26 "	415,284.26
Penetanguishene.....	33 "	119,765.64	Seaforth.....	33 "	113,943.42
Perth.....	25 "	140,912.63	Shelburne.....	28 "	36,204.17
Peterborough.....	21 "	756,920.09	Simcoe.....	29 "	224,248.94
Petrolia.....	28 "	182,782.41	Smiths Falls.....	26 "	211,177.96
Picton.....	21 "	114,226.85	Smithville.....	9 "	7,273.16

SOUTHERN ONTARIO SYSTEM S.O.—SINKING FUND

Embracing Niagara, Georgian Bay and Eastern Ontario Divisions

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1949

Municipality	Period of years ended Oct. 31, 1949	Amount	Municipality	Period of years ended Oct. 31, 1949	Amount
		\$ c.			\$ c.
Southampton.....	19 "	32,055.07	Wallaceburg.....	29 years	395,709.52
Springfield.....	27 "	16,137.67	Wardsville.....	26 "	7,233.57
Stamford Township..	28 "	197,526.15	Warkworth.....	21 "	8,112.54
Stayner.....	31 "	32,464.21	Waterdown.....	33 "	39,521.11
Stirling.....	20 "	19,535.47	Waterford.....	29 "	59,107.51
Stoney Creek.....	3 "	3,244.95	Waterloo.....	33 "	522,132.88
Stouffville.....	26 "	35,476.74	Watford.....	27 "	47,461.15
Stratford.....	33 "	1,058,609.68	Waubashene.....	30 "	9,578.67
Strathroy.....	30 "	168,794.94	Welland.....	27 "	648,986.22
Streetsville.....	15 "	12,004.67	Wellesley.....	28 "	27,814.36
Sunderland.....	30 "	18,585.08	Wellington.....	21 "	21,698.10
Sutton.....	26 "	35,518.19	West Lorne.....	28 "	46,308.19
Swansea.....	24 "	189,068.58	Weston.....	33 "	456,489.46
Tara.....	26 "	16,393.17	Westport.....	18 "	11,903.37
Tavistock.....	28 "	84,334.17	Wheatley.....	26 "	28,699.39
Tecumseh.....	27 "	51,877.20	Whitby.....	21 "	109,028.06
Teeswater.....	25 "	23,775.34	Wiarton.....	19 "	33,571.60
Thamesford.....	30 "	32,110.67	Williamsburg.....	29 "	11,532.32
Thamesville.....	29 "	32,180.54	Winchester.....	30 "	38,457.58
Thedford.....	26 "	18,993.40	Windermere.....	20 "	5,649.09
Thornbury.....	5 "	2,100.74	Windsor.....	30 "	5,718,369.29
Thorndale.....	30 "	15,767.50	Wingham.....	25 "	78,484.76
Thornton.....	26 "	6,340.81	Woodbridge.....	30 "	64,953.81
Thorold.....	27 "	207,077.57	Woodstock.....	33 "	781,856.53
Tilbury.....	29 "	100,298.15	Woodville.....	30 "	17,547.90
Tillsonburg.....	33 "	169,361.52	Wyoming.....	28 "	15,861.28
Toronto.....	33 "	35,313,825.78	York Township....	29 "	1,510,737.43
Toronto Township..	31 "	261,052.25	Zurich.....	27 "	24,434.97
Tottenham.....	26 "	20,283.22	Ontario Central		
Trafalgar.....	13 "	27,302.93	Reformatory.....	15 "	15,043.73
Trenton.....	18 "	214,369.55	Toronto Transporta-		
Tweed.....	19 "	23,785.30	tion Commission..	28 "	267,143.65
Uxbridge.....	25 "	39,624.51	Sandwich, Windsor &		
Victoria Harbour...	30 "	12,052.04	Amherstburg Rly..	27 "	260,007.89
Walkerton.....	19 "	52,249.21			
			Total Municipalities.....		\$98,453,755.31
			Total—Rural Power Dis-		
			trict.....		10,953,866.03
			Grand total.....		\$109,407,621.34

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

SOUTHERN ONTARIO AND THUNDER BAY SYSTEMS

RURAL POWER DISTRICTS

Operating accounts for the year ended October 31, 1949

	Southern Ontario	Thunder Bay	Total
	\$ c.	\$ c.	\$ c.
REVENUE:			
Power sold to customers in rural power districts.....	10,858,363.92	102,182.85	10,960,546.77
COST OF OPERATION:			
Cost of power as provided to be paid under Power Commission Act.....	5,740,269.29	41,990.66	5,782,259.95
Operating, maintenance and administrative expenses.....	4,105,368.93	77,075.50	4,182,444.43
Interest (including interest on funded debt and reserves less interest earned on investments).....	1,452,466.89	23,069.53	1,475,536.42
Provision for depreciation.....	690,798.28	11,066.07	701,864.35
Provision for contingencies and obsolescence.....	172,698.49	2,766.52	175,465.01
Provision for sinking fund.....	366,824.59	5,826.28	372,650.87
	12,528,426.47	161,794.56	12,690,221.03
Excess of operating cost over revenue for year.	1,670,062.55	59,611.71	1,729,674.26

Rates Suspense Account for the year ended October 31, 1949

	Southern Ontario	Thunder Bay	Total
	\$ c.	\$ c.	\$ c.
Balances at credit or debit November 1, 1948.	3,825,183.88	24,646.11	3,800,537.77
Interest on account balances.....	152,983.58	997.68	151,985.90
	3,978,167.46	25,643.79	3,952,523.67
Excess of operating cost over revenue for the year.....	1,670,062.55	59,611.71	1,729,674.26
Adjustments made during year.....	1,011.25	359.10	1,370.35
	1,671,073.80	59,970.81	1,731,044.61
Balances at credit or debit October 31, 1949..	2,307,093.66	85,614.60	2,221,479.06

THUNDER BAY

Statement showing the amount chargeable (upon annual adjustment) to each it by the Commission; the amount billed by the Commission against or charged to each Municipality in respect of power

Municipality	Interim rates collected by Commission during year to October 31, 1949		Share of capital cost of system	Average load supplied in year after correction for power factor		Share of operating				
	Per hp	Per kw		hp	kw	Cost of power purchased	Operating maintenance and administrative expenses	Interest		
			\$	c.			\$	c.	\$	c.
Fort William.	20.00	26.80	4,278,593.97	20,667.2	15,417.7	18.92	102,802.41	169,957.01		
Nipigon Twp.	28.00	37.50	150,299.50	638.7	476.5	0.58	3,804.34	5,867.17		
Port Arthur..	20.00	26.80	6,208,337.23	30,028.7	22,401.4	27.48	151,062.24	246,595.11		
Red Rock...	25.00	33.50	78,996.60	408.8	305.0	0.37	2,864.80	3,061.12		
Schreiber....	39.00	52.20	63,917.78	251.7	187.8	0.23	1,413.39	2,032.56		
Terrace Bay.	35.00	46.90	169,650.56	792.1	590.9	0.73	4,475.54	6,617.13		
TOTALS										
Municipalities.....			10,949,795.64	52,787.2	39,379.3	48.31	266,422.72	434,130.10		
Rural Power district.....			445,917.10	1,725.0	1,286.9	1.58	12,380.18	16,478.46		
Companies.....			23,078,027.88	111,994.0	83,547.5	1,330.75	506,745.61	897,008.83		
Rainy River district (N.O.P.)			3,628,377.22	18,556.0	13,842.8	16.98	76,156.07	143,793.43		
Mining Area (mines).....			2,534,848.52	9,320.5	6,953.1	8.53	124,600.24	66,763.99		
Mining Area (townsites)....			459,390.80	1,152.1	859.5	1.06	32,309.49	8,252.65		
			41,096,357.16							
Non-operating capital.....			19,379,655.61							
Grand totals.....			60,476,012.77	195,534.8	145,869.1	1,407.21	1,018,614.31	1,566,427.46		

THUNDER BAY SYSTEM

Statement summarizing the amounts credited or charged to Municipalities which are supplied with power at cost, as a result of annual adjustments of interim billings to the amounts chargeable in respect of power supplied in each year

	\$ c.
Amounts at credit of municipalities at October 31, 1948.....	66,527.11
Less payments to municipalities and adjustments made during the year ended October 31, 1949.....	66,527.11
Balance of annual adjustments to October 31, 1948.....	Nil
Amounts credited to municipalities upon adjustment of interim billings for power supplied in the year ended October 31, 1949, as detailed on cost of power statement for the year.....	28,100.99
Amounts at credit of municipalities at October 31, 1949.....	28,100.99

SYSTEM

T.B.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to each Municipality at interim rates, and the balance credited supplied to it in the year ended October 31, 1949

costs and fixed charges				Cost in excess of revenue from power sold to private companies	Amount chargeable to each municipality in respect of power supplied to it in the year	Amount billed against each municipality at interim rates	Amount remaining to be credited to each municipality
Provision for depreciation	Provision for contingencies and obsolescence	Provision for stabilization of rates	Provision for sinking fund	Debit			
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
34,162.34	33,500.70	.....	42,923.12	26,596.76	409,961.26	413 196.66	3,235.40
1,285.77	1,111.97	.....	1,481.76	821.95	14,373.54	17,867.98	3,494.44
49,512.06	48,633.79	.....	62,278.30	38,644.13	596,753.11	600,358.02	3,604.91
573.22	628.47	.....	773.10	526.09	8,427.17	10,218.29	1,791.12
407.62	405.18	.....	513.33	323.91	5,096.22	9,803.68	4,707.46
1,362.17	1,301.57	.....	1,671.16	1,019.36	16,447.66	27,715.32	11,267.66
87,303.18	85,581.68	.....	109,640.77	67,932.20	1,051,058.96	1,079,159.95	28,100.99
3,677.35	3,071.50	.....	4,161.68	2,219.91	41,990.66	41,990.66	.....
173,237.37	176,003.06	.....	224,008.17	(70,152.11)	1,908,181.68	1,908,181.68	.....
27,566.85	15,497.40	.....	36,315.44	.....	299,346.17	299,346.17	.....
12,039.64	16,649.14	20,041.78	16,861.42	.....	256,964.74	256,964.74	.....
1,488.21	18,272.64	15,105.52	2,084.23	.....	77,513.80	77,513.80	.....
305,312.60	315,075.42	35,147.30	393,071.71	.....	3,635,056.01	3,663,157.00	28,100.99

THUNDER BAY SYSTEM

SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with the proportionate share of other sinking funds provided out of other revenues of the System, and interest allowed thereon, to October 31, 1949

Municipality	Period of years ended October 31, 1949	Amount
		\$ c.
Fort William.....	23 years	1,803,439.72
Nipigon Township.....	23 years	24,861.83
Port Arthur.....	23 years	4,284,000.23
Red Rock.....	2 years	3,573.66
Schreiber (November 1948).....	1 year	1,803.02
Terrace Bay.....	2 years	6,592.95
Total—Municipalities.....		6,124,271.41
Total—Rural power district.....		111,314.26
Grand total.....		6,235,585.67

NORTHERN ONTARIO PROPERTIES

(Operated by The Hydro-Electric Power Commission of Ontario)

FINANCIAL ACCOUNTS

For the year ended October 31, 1949

Relating to Power Properties which are held and operated by the Commission in trust for the Province of Ontario, and which are situated in the following Northern Districts:

Abitibi	Timiskaming	Sudbury	Nipissing
Patricia	Rainy River	Rural Power	

STATEMENTS

Balance Sheet as at October 31, 1949

Operating Account for the year ended October 31, 1949

Schedules supporting the Balance Sheet as at October 31, 1949

Fixed Assets—By Districts

Fixed Assets—Changes during year

Depreciation Reserve

Contingencies and Obsolescence Reserve

Sinking Fund Reserve

THE HYDRO-ELECTRIC POWER

NORTHERN ONTARIO

Held and operated by The Hydro-Electric Power Commission

BALANCE SHEET AS AT

ASSETS

FIXED ASSETS:

Northern Ontario Properties.....	\$ 85,377,531.27	
Rural power district.....	5,970,999.27	
	<u>\$ 91,348,530.54</u>	
Less grants in aid of construction—		
Province of Ontario—for rural power district.....	2,754,053.87	
	<u>\$ 88,594,476.67</u>	

CURRENT ASSETS:

Working funds.....	\$ 18,405.00	
Sundry accounts receivable.....	71,518.45	
Power accounts receivable.....	820,041.80	
Interest accrued.....	18,296.88	
Consumers' deposits—securities.....	1,659,237.95	
Prepayments.....	59,151.17	
	<u>2,646,651.25</u>	

INVENTORIES:

Maintenance materials and supplies.....	\$ 976,349.14	
Maintenance tools and equipment.....	373,796.26	
Office equipment.....	73,106.88	
	<u>1,423,252.28</u>	

DEFERRED CHARGES AND SUNDRY ASSETS:

Debenture discount and expense.....	\$ 787,993.26	
Account receivable—payable in annual installments 1950-1989.....	1,990,230.00	
Work in progress—deferred work orders.....	216,854.67	
	<u>2,995,077.93</u>	

INVESTMENTS: (including sinking fund investments of \$2,461,398.62)—

Government and government guaranteed bonds at amortized cost.....	2,571,501.94	
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DEFICIT ACCOUNT:.....	127,361.33	
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\$ 98,358,321.40

COMMISSION OF ONTARIO

PROPERTIES

of Ontario in trust for the Province of Ontario

OCTOBER 31, 1949

LIABILITIES AND RESERVES

LONG TERM LIABILITIES (at par of exchange):

Funded debt.....	\$ 58,200,000.00	
Advances from the Province of Ontario.....	4,786,463.54	
		<u>\$ 62,986,463.54</u>

CURRENT LIABILITIES:

The Hydro-Electric Power Commission of Ontario—current account with Southern Ontario and Thunder Bay systems.....	\$ 811,058.26	
Consumers' deposits.....	1,898,727.10	
Debenture interest accrued.....	360,130.66	
Miscellaneous accruals.....	185,698.11	
		<u>3,255,614.13</u>

RESERVES:

Depreciation.....	\$ 7,687,885.64	
Contingencies and obsolescence.....	2,721,555.79	
Miscellaneous.....	214,755.75	
		<u>10,624,197.18</u>

SINKING FUND RESERVES:

Represented by—		
Funded debt and provincial advances retired through sinking funds.....	\$ 19,030,647.93	
Sinking fund investments.....	2,461,398.62	
		<u>21,492,046.55</u>
		<u><u>\$ 98,358,321.40</u></u>

Auditors' Report

We have examined the balance sheet of the Northern Ontario Properties held and operated by The Hydro-Electric Power Commission of Ontario in trust for the Province of Ontario as at October 31, 1949 and the attached statements of operations and deficit for the year ended on that date. In connection therewith we made a general review of the accounting methods and, without making a detailed audit of the transactions, examined or tested the accounting records of the Commission and other supporting evidence by methods and to the extent we deemed appropriate. We received all the information and explanations we required from its officers and employees.

We report that in our opinion the foregoing balance sheet and related statements of operations and surplus (as more fully reported upon by us to the Lieutenant-Governor in Council) have been drawn up so as to exhibit a true and correct view of the state of the affairs of the Northern Ontario Properties operated by the Commission at October 31, 1949 and of the results of their operations for the year ended on that date, according to the best of our information and the explanations given us and as shown by the books.

CLARKSON, GORDON & CO.
Chartered Accountants.

Toronto, Canada,
June 6, 1950.

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

STATEMENT OF OPERATIONS for the year ended October 31, 1949

	Northern Ontario Properties	Rural power district	Total
	\$ c.	\$ c.	\$ c.
REVENUE:			
Power sold to companies, municipalities and other customers.....	7,251,509.51	409,619.08	7,661,128.59
COST OF OPERATION:			
Power purchased.....	407,025.14	6,902.75	413,927.89
Operating, maintenance and administrative expenses.....	3,345,515.10	326,819.50	3,672,334.60
Interest (including interest on funded debt and reserves less interest earned on investments).....	1,958,814.20	58,874.63	2,017,688.83
Provision for depreciation.....	666,671.61	31,764.36	698,435.97
Provision for sinking fund.....	617,423.68	18,557.51	635,981.19
Provision for contingencies and obsoles- cence.....	380,319.28	7,943.86	388,263.14
Power billed to rural power district by Northern Ontario Properties.....	205,878.79	205,878.79	.....
	7,169,890.22	656,741.40	7,826,631.62
NET LOSS OR PROFIT on operations for year...	81,619.29	247,122.32	165,503.03

NOTE: The sinking fund provisions for the year have been computed on a 40-year term basis. In prior years these provisions varied between districts and were based on terms ranging from 15 to 40 years.

Provision for contingencies and obsolescence was made in respect of all depreciable capital in 1949 except equipment in the Abitibi district which is used to serve steam loads. In 1948 no provision was made.

Depreciation was provided in 1949 on the capital in the Patricia and Rainy River districts at the rates used in the other districts. In prior years no depreciation was provided for these two districts.

Statement of Deficit for the Year Ended October 31, 1949

Balance at credit November 1, 1948.....	\$ 38,141.70
Net loss on operations for the year ended October 31, 1949.....	165,503.03
Balance at debit, October 31, 1949.....	\$ 127,361.33

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—October 31, 1949

Property	Under construction	In service		Total
		Non- depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
ABITIBI DISTRICT:				
Power Plants:				
Abitibi river:				
Abitibi Canyon.....	8,575.23	5,530,862.63	13,461,043.59	19,000,481.45
Frederick House dam.....	3,567.03	141,588.49	766,098.13	911,253.65
Dasserat Lake diversion.....		4,220.89	34,471.80	38,692.69
Watabeag Lake dam.....		6,983.63	64,565.68	71,549.31
	12,142.26	5,683,655.64	14,326,179.20	20,021,977.10
Transformer Stations.....	242,396.07		2,970,316.21	3,212,712.28
Transmission Lines.....	37,620.54	654,264.01	6,164,760.34	6,856,644.89
Local Systems.....	13,581.34		113,143.30	126,724.64
	305,740.21	6,337,919.65	23,574,399.05	30,218,058.91
TIMISKAMING DISTRICT:				
Power Plants:				
Matabitchuan river:				
Matabitchuan.....	23,080.18	3,240.00	703,685.04	730,005.22
Storage dams.....	6,672.39		134,545.12	141,217.51
Montreal river:				
Upper Notch.....	512,859.85	6,534.35	1,706,508.65	2,225,902.85
Fountain Falls.....	31,056.74		349,751.00	380,807.74
Ragged Chute.....	437.68		959,172.00	959,609.68
Hound Chute.....	32,154.45	3,240.00	452,247.94	487,642.39
Indian Chute.....	4,113.08		442,267.54	446,380.62
Storage dams.....			166,649.60	166,649.60
Mattagami river:				
Sandy Falls.....	68,977.41		710,284.49	779,261.90
Wawaitin.....	95,171.06		1,016,900.65	1,112,071.71
Lower Sturgeon.....	18,071.18	53,250.00	779,363.56	850,684.74
Storage dams.....		1,944.00	217,441.20	219,385.20
Intangible.....		992,057.29		992,057.29
	792,594.02	1,060,265.64	7,638,816.79	9,491,676.45
Transformer Stations.....	372,523.21		1,492,840.32	1,865,363.53
Transmission Lines.....	143,789.18	224,761.49	3,073,260.75	3,441,811.42
Office and Service Buildings.....	530.67	10,450.00	185,166.34	196,147.01
Local Distribution Systems.....	25,262.45		1,560,272.54	1,585,534.99
	1,334,699.53	1,295,477.13	13,950,356.74	16,580,533.40

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—October 31, 1949

Property	Under Construction	In service		Total
		Non- depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
SUDBURY DISTRICT:				
Power Plants:				
Wanapitei river:				
Coniston	1,196.05	13,597.20	770,096.82	784,890.07
McVittie		13,323.00	393,696.61	407,019.61
Stinson		33,000.00	666,946.07	699,946.07
Storage dam		25.00	194,870.00	194,895.00
Intangible		830,514.53		830,514.53
Sturgeon river:				
Crystal Falls and Storage dams	474.06	44,531.27	1,125,323.07	1,170,328.40
Mississagi river:				
Tunnel	15,287,772.51			15,287,772.51
	15,289,442.62	934,991.00	3,150,932.57	19,375,366.19
Transformer Stations	2,250,795.10		1,730,507.76	3,981,302.86
Transmission Lines	2,231,347.83		734,716.95	2,966,064.78
	19,771,585.55	934,991.00	5,616,157.28	26,322,733.83
NIPISSING DISTRICT:				
Power Plants:				
South river:				
Nipissing		12,089.60	242,280.91	254,370.51
Bingham Chute		12,105.05	263,451.96	275,557.01
Elliot Chute		119,307.09	334,834.33	454,141.42
Storage dams			76,122.70	76,122.70
Intangible		69,478.34		69,478.34
		212,980.08	916,689.90	1,129,669.98
Transformer Stations	2,576.47		85,532.32	88,108.79
Transmission Lines	5,326.14		265,959.89	271,286.03
Local Systems	69.25	1,245.72	25,317.92	26,632.89
	7,971.86	214,225.80	1,293,500.03	1,515,697.69
PATRICIA DISTRICT:				
Power Plants:				
English river:				
Ear Falls	38,345.36	566.75	3,632,547.35	3,671,459.46
Albany river:				
Rat Rapids		39,297.44	575,989.10	615,286.54
	38,345.36	39,864.19	4,208,536.45	4,286,746.00
Transformer Stations	17,389.87		236,450.04	253,839.91
Transmission Lines	268,762.53		3,318,682.62	3,587,445.15
Local Systems	12,120.56		62,000.39	74,120.95
	336,618.32	39,864.19	7,825,669.50	8,202,152.01

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

FIXED ASSETS—October 31, 1949

Property	Under Construction	In service		Total
		Non- depreciable	Depreciable	
RAINY RIVER DISTRICT:	\$ c.	\$ c.	\$ c.	\$ c.
Transformer Stations.....	59,142.32		157,231.21	216,373.53
Transmission Lines.....	4,659.08	349,679.95	910,590.94	1,264,929.97
Local Systems.....	3,088.82		55,060.49	58,149.31
Intangible.....		4,086.32		4,086.32
	66,890.22	353,766.27	1,122,882.64	1,543,539.13
NORTHERN ONTARIO PROPERTIES				
Communications.....	216,015.99		778,800.31	994,816.30
NORTHERN ONTARIO PROPERTIES				
RURAL POWER DISTRICT:				
Distribution System:				
H-E.P.C. investment.....	713,282.25	975.00	2,125,971.78	2,840,229.03
Government grants.....	708,093.21		2,045,960.66	2,754,053.87
Power Plant (Manitoulin).....	1,814.14	43,396.98	180,774.55	225,985.67
Transformer Stns. (Manitoulin).....	6,664.25		12,000.00	18,664.25
Transmission Lines (Manitoulin).....	321.04		131,745.41	132,066.45
	1,430,174.89	44,371.98	4,496,452.40	5,970,999.27

FIXED ASSETS—Summary, October 31, 1949

Property	Under Construction	In service		Total
		Non- depreciable	Depreciable	
	\$ c.	\$ c.	\$ c.	\$ c.
Abitibi district.....	305,740.21	6,337,919.65	23,574,399.05	30,218,058.91
Timiskaming district.....	1,334,699.53	1,295,477.13	13,950,356.74	16,580,533.40
Sudbury district.....	19,771,585.55	934,991.00	5,616,157.28	26,322,733.83
Nipissing district.....	7,971.86	214,225.80	1,293,500.03	1,515,697.69
Patricia district.....	336,618.32	39,864.19	7,825,669.50	8,202,152.01
Rainy River district.....	66,890.22	353,766.27	1,122,882.64	1,543,539.13
Communications.....	216,015.99		778,800.31	994,816.30
	22,039,521.68	9,176,244.04	54,161,765.55	85,377,531.27
Rural power district.....	1,430,174.89	44,371.98	4,496,452.40	5,970,999.27
	23,469,696.57	9,220,616.02	58,658,217.95	91,348,530.54
Less grants-in-aid of construction—Province of Ontario for rural power district.				2,754,053.87
				\$88,594,476.67

**NORTHERN ONTARIO
CHANGES IN FIXED ASSETS—**

Class of asset	Balance at beginning of year	Expenditure during year
POWER PLANTS:	\$ c.	\$ c.
Abitibi district.....	20,009,351.26	12,625.84
Timiskaming district.....	8,392,142.32	1,136,057.46
Sudbury district.....	9,838,751.16	9,539,905.03
Nipissing district.....	1,117,649.27	12,020.71
Patricia district.....	4,061,954.68	255,145.92
Rainy River district.....		4,086.32
	43,419,848.69	10,959,841.28
TRANSFORMER STATIONS:		
Abitibi district.....	2,909,168.62	308,060.60
Timiskaming district.....	1,477,133.89	393,435.64
Sudbury district.....	1,107,018.63	2,874,968.23
Nipissing district.....	66,646.40	22,153.39
Patricia district.....	217,964.60	38,177.22
Rainy River district.....	165,971.43	50,402.10.
	5,943,903.57	3,687,197.18
TRANSMISSION LINES:		
Abitibi district.....	7,073,064.66	55,239.80
Timiskaming district.....	3,357,359.87	164,479.35
Sudbury district.....	655,900.51	2,360,392.03
Nipissing district.....	277,689.53	7,906.25
Patricia district.....	3,614,369.82	81,816.69
Rainy River district.....	1,366,757.77	394.56
	16,345,142.16	2,670,228.68
LOCAL SYSTEMS:		
Abitibi district.....	104,556.72	18,323.35
Timiskaming district.....	1,525,437.08	87,825.04
Nipissing district.....	45,519.69	2,196.15
Patricia district.....	61,997.96	12,133.99
Rainy River district.....	45,498.04	12,651.27
	1,783,009.49	133,129.80
COMMUNICATIONS.....	61,236.04	340,662.94
OFFICE AND SERVICE BUILDINGS:		
Timiskaming district.....	190,851.32	6,195.69
RURAL POWER DISTRICT:		
H-E.P.C. investment.....	1,237,273.03	1,608,812.30
Government grants.....	1,161,533.52	1,598,376.65
Power development (Manitoulin).....	223,427.23	2,558.44
Transformer stations (Manitoulin).....		18,664.25
Transmission lines (Manitoulin).....		132,066.45
	2,622,233.78	3,360,478.09
	70,366,225.05	21,157,733.66
Less grants-in-aid of construction— Province of Ontario for rural power district..	1,161,533.52	1,592,520.35
	69,204,691.53	19,565,213.31

PROPERTIES

During Year Ended October 31, 1949

Adjustment for equipment re-located	Retirements		Balance at end of year
	Values recovered (stores, sales and salvage)	Charged to reserve for depreciation and contingencies	
\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	.....	20,021,977.10
.....	.....	36,523.33	9,491,676.45
.....	684.59	2,605.41	19,375,366.19
.....	.....	.....	1,129,669.98
.....	9.60	30,345.00	4,286,746.00
.....	.....	.....	4,086.32
.....	694.19	69,473.74	54,309,522.04
.....
.....	.....	4,516.94	3,212,712.28
.....	.....	5,206.00	1,865,363.53
.....	.....	684.00	3,981,302.86
.....	35.00	656.00	88,108.79
.....	.....	2,301.91	253,839.91
.....	.....	.....	216,373.53
.....	35.00	13,364.85	9,617,700.90
.....
267,091.35	.....	4,568.22	6,856,644.89
56,831.07	1,091.73	22,105.00	3,441,811.42
50,227.76	.....	.....	2,966,064.78
14,309.75	.....	.....	271,286.03
102,235.03	.....	6,506.33	3,587,445.15
102,222.36	.....	.....	1,264,929.97
592,917.32	1,091.73	33,179.55	18,388,182.24
.....
4,201.76	.....	357.19	126,724.64
25,437.13	.....	2,290.00	1,585,534.99
20,860.75	.....	222.20	26,632.89
.....	.....	11.00	74,120.95
.....	.....	.....	58,149.31
42,096.12	.....	2,880.39	1,871,162.78
592,917.32	.....	.....	994,816.30
.....
.....	.....	900.00	196,147.01
.....
21,048.06	26,662.96	241.40	2,840,229.03
21,048.06	26,662.97	241.39	2,754,053.87
.....	.....	.....	225,985.67
.....	.....	.....	18,664.25
.....	.....	.....	132,066.45
42,096.12	53,325.93	482.79	5,970,999.27
.....	55,146.85	120,281.32	91,348,530.54
.....	.....	.....	2,754,053.87
.....	55,146.85	120,281.32	88,594,476.67
.....	Depreciation.....	9,855.71	.....
.....	Contingencies.....	110,425.61	.....

NORTHERN ONTARIO PROPERTIES

Held and operated by The Hydro-Electric Power Commission of Ontario
in trust for the Province of Ontario

DEPRECIATION RESERVE—October 31, 1949

Balance at November 1, 1948.		\$6,729,420. 84
Interest at 4% on reserve balance.	\$269,176. 83	
Provision in the year.	698,435. 97	
Adjustment in respect of equipment transferred during the year.	6,300. 40	
		<u>973,913. 20</u>
		\$7,703,334. 04
Deduct:		
Amounts withdrawn for renewals.	\$518. 32	
Amounts withdrawn in respect of assets removed from service etc.	9,855. 71	
Excess reserve accumulated against assets removed from service—transferred to contingency reserve.	5,074. 37	
		<u>15,448. 40</u>
Balance at October 31, 1949.		<u><u>\$7,687,885. 64</u></u>

CONTINGENCIES AND OBSOLESCENCE RESERVE—October 31, 1949

Balance at November 1, 1948.		\$2,534,680. 05
Interest at 4% on reserve balance.	\$101,387. 20	
Provision in year.	388,263. 14	
Excess depreciation reserve accumulated against assets removed from service—transferred from depreciation reserve.	5,074. 37	
Adjustments arising from the transfer of equipment, etc.	3,634. 81	
		<u>498,359. 52</u>
		\$3,033,039. 57
Deduct:		
Contingencies met with during the year.	\$201,058. 17	
Excess of cost of fixed assets retired over accumulated depreciation reserve.	110,425. 61	
		<u>311,483. 78</u>
Balance at October 31, 1949.		<u><u>\$2,721,555. 79</u></u>

SINKING FUND RESERVE—October 31, 1949

Balance at November 1, 1948.		\$20,104,456. 29
Interest at 4% on reserve balance.	\$751,609. 07	
Provision in the year.	635,981. 19	
		<u>1,387,590. 26</u>
Balance at October 31, 1949.		<u><u>\$21,492,046. 55</u></u>

SECTION X

MUNICIPAL ACCOUNTS

and

Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission of Ontario

THE Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing systems and operating with energy supplied by or through The Hydro-Electric Power Commission.

Financial statements prepared from the books of these Hydro utilities are submitted herein to show how each has operated during the past year, and its financial status at the present time. Other tables give useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the electrical utilities in all municipalities which have contracted with The Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with an accounting system designed by the Commission. During the year 1949 this standard method of accounting was installed in Frankford, Larder Lake Township, McGarry Improvement District, Newboro, Newburgh, Oakville and Schreiber Township.

Periodical inspections are made of the books of all Hydro electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities much of the book-keeping for the electrical utilities is performed by representatives of the municipal accounting department of the Commission as a measure of economy. This arrangement ensures the correct application of the standard accounting system, with resultant uniformity in classification of revenues and expenditures; secures true reflections of the actual operating results for the year, and greatly enhances the comparative values of the reports.

The first financial statement in this section presents consolidated balance sheets for the past eight years. Similar data for earlier years since 1913 were published in the Report for 1943. This consolidated statement combines the balance sheets of all local municipal Hydro utilities receiving power under cost contracts. It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$136,745,778.92 in 1949, and the total assets from \$11,907,826.86 to \$274,484,001.03. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to a maximum of \$52,685,316.86 in 1932, and receding to \$14,139,918.12 in 1949. The reasons for this are the regular fulfilment of debt retirement schedules under serial debenture provisions or by maturity of sinking funds, and also the fact that much of the cost of the increasing plant value has been financed out of reserves and surplus without increasing the capital liabilities of the respective utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; from 88.0 per cent in 1913 to 7.0 per cent in 1949. The equities in The Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for the past eight years and combines the results from all local municipal Hydro utilities receiving power under cost contracts. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net surplus of \$3,196,-689.48 for 1949. (See also diagrams in Foreword to Report.)

The four statements, "A" to "D", following the two consolidated reports show the financial status of each municipal utility and the results of operations, giving classified information respecting revenue, operating costs, number of consumers and consumption, cost of power to municipalities, power and lighting rates charged to consumers, etc. In statements "A" and "B", the municipalities are arranged alphabetically under each system; in statement "C" all municipalities are arranged alphabetically; in statement "D" the municipalities are arranged alphabetically in four groups—cities, suburban areas, towns and small municipalities.

Statement "A" presents the balance sheet of each electrical utility. The plant values are shown under the general subdivisions specified in the standard accounting system and the other items on the positive side of the ledger which are included in total assets are self-explanatory.

In conformity with a policy of service at cost to the customer, refunds by cash or credit are made during the year in many municipalities from surplus funds accrued to the credit of municipal services, such as street lighting, water works, sewage disposal, etc., and to individual customers. The total thus returned to customers during the year 1949 amounted in round figures to \$288,000.

The reserves for depreciation, and the acquired equity in The Hydro-Electric Power Commission's systems, are listed individually and totalled;

and under the heading "surplus" are included not only the operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The depreciation reserve now amounts to 33.7 per cent of the total depreciable plant, while the depreciation reserve and surplus combined have already reached the sum of \$155,618,441.21, being equal to 113.8 per cent of the total plant cost.

Statement "B" shows the detailed operating report for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility and the number of consumers of each class are also shown.

The item "cost of power supplied by H-E.P.C." in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.*

Of the 315 municipal electrical utilities included in this statement, 306 received from consumers revenue sufficient to meet in full all operating expenses, interest, debt retirement instalments, and standard depreciation reserve allocation and to yield an aggregate net surplus of \$3,251,849.18 for the year; the other nine were able to defray out of revenue all such charges except a portion of the standard depreciation allocation aggregating \$55,159.70.

Statement "C" presents the cost per kilowatt of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1949, for domestic service, for commercial light service and for power service.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average kilowatts supplied by the municipal utility.† For further reference to this informative statement, consult the special introduction to it on page 306.

*In 1939 and 1940 a number of municipalities asked permission to take power cost adjustments into the following year, to facilitate the earlier closing of their books. On this account, from 1941 on, with few exceptions the Balance Sheet shows the previous year's equity in Hydro Commission properties; and the Cost of Power in the Operating Statement includes the previous year's adjustments.

†The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

Year.....	1942	1943	1944
Number of municipalities included.....	297	298	298
ASSETS	\$ c.	\$ c.	\$ c.
Lands and buildings.....	11,546,286.55	11,664,887.81	11,713,108.74
Substation equipment.....	25,359,352.47	25,392,202.96	25,805,344.10
Distribution system—overhead.....	25,572,132.86	25,773,224.22	26,075,416.77
Distribution system—underground.....	6,446,133.75	6,451,393.47	6,385,742.19
Line transformers.....	12,209,624.79	12,353,367.17	12,698,080.21
Meters.....	10,938,305.73	11,117,612.15	11,339,479.64
Street lighting equipment—regular.....	2,928,896.30	2,903,704.11	2,926,365.70
Street lighting equipment—ornamental.....	1,543,717.00	1,542,294.82	1,542,819.42
Miscellaneous construction expenses.....	4,091,006.92	3,740,027.08	3,414,557.25
Steam or hydraulic plant.....	422,172.72	397,576.71	368,022.38
Old plant.....	1,028,830.05	936,561.90	820,607.24
Total plant.....	102,086,459.14	102,272,852.40	103,089,543.64
Bank and cash balance.....	2,482,945.50	2,341,996.68	1,947,073.36
Securities and investments.....	12,592,455.09	17,037,057.29	21,245,620.67
Accounts receivable.....	3,614,066.68	3,347,449.72	3,710,514.76
Inventories.....	2,047,430.38	1,750,799.42	1,622,866.57
Sinking fund on local debentures.....	5,445,199.46	5,028,551.56	4,880,499.77
Equity in H-E.P.C. systems.....	57,080,491.77	62,031,673.13	69,486,548.01
Other assets.....	197,190.92	537,366.80	192,661.46
Frequency standardization expenditure in suspense.....			
Total assets.....	185,546,238.94	194,347,747.00	206,175,328.24
LIABILITIES			
Debenture balance.....	16,184,642.53	13,657,032.51	11,612,359.10
Accounts payable.....	2,399,404.91	2,699,630.77	1,701,420.70
Bank overdraft.....	105,571.05	118,834.40	174,491.81
Other liabilities.....	2,806,844.10	2,618,742.94	2,584,979.26
Total liabilities.....	21,496,462.59	19,094,240.62	16,073,250.87
RESERVES			
For equity in H-E.P.C. systems.....	57,080,491.77	62,031,673.13	69,486,548.01
For depreciation.....	29,840,207.73	32,138,469.64	34,006,953.37
Other reserves.....	4,907,609.88	5,449,398.96	6,308,596.82
Total reserves.....	91,828,309.38	99,619,541.73	109,802,098.20
SURPLUS			
Debentures paid.....	41,183,741.27	43,552,091.22	45,475,788.84
Local sinking fund.....	5,445,199.46	5,028,551.56	4,880,499.77
Operating surplus.....	25,592,526.24	27,053,321.87	29,943,690.56
Net frequency standardization expense charged this year.....			
Total surplus.....	72,221,466.97	75,633,964.65	80,299,979.17
Total liabilities, reserves and surplus.....	185,546,238.94	194,347,747.00	206,175,328.24
Percentage of net debt to total assets.....	11.9	10.0	7.4

BALANCE SHEETS

1945	1946	1947	1948	1949
304	304	304	308	315
<div>\$c.</div> <div>11,879,469.56</div> <div>26,201,620.92</div> <div>26,835,864.78</div> <div>6,539,797.63</div> <div>13,360,997.73</div> <div>11,742,720.68</div> <div>3,066,246.06</div> <div>1,551,628.63</div> <div>3,469,256.69</div> <div>1,005,980.83</div> <div>692,517.55</div>	<div>\$c.</div> <div>11,830,325.45</div> <div>26,778,943.63</div> <div>27,810,938.64</div> <div>6,848,694.50</div> <div>14,247,872.95</div> <div>12,325,105.86</div> <div>3,268,433.46</div> <div>1,555,698.39</div> <div>3,802,802.98</div> <div>1,080,730.83</div> <div>658,421.95</div>	<div>\$c.</div> <div>12,220,747.92</div> <div>28,430,102.81</div> <div>29,230,801.09</div> <div>7,400,874.88</div> <div>15,698,549.76</div> <div>13,112,187.77</div> <div>3,827,634.40</div> <div>1,536,957.94</div> <div>4,242,837.80</div> <div>1,080,976.81</div> <div>587,479.45</div>	<div>\$c.</div> <div>12,981,533.46</div> <div>29,626,621.36</div> <div>31,541,077.08</div> <div>8,040,205.01</div> <div>17,593,431.84</div> <div>13,948,013.24</div> <div>4,486,158.98</div> <div>1,558,798.17</div> <div>4,290,247.58</div> <div>1,457,291.81</div> <div>573,313.04</div>	<div>\$c.</div> <div>13,759,701.81</div> <div>32,405,939.81</div> <div>34,325,936.81</div> <div>8,663,874.53</div> <div>19,267,220.87</div> <div>15,050,359.45</div> <div>4,847,993.56</div> <div>1,564,378.72</div> <div>4,608,566.91</div> <div>1,478,544.77</div> <div>773,261.68</div>
106,346,101.06	110,207,968.64	117,369,150.63	126,096,691.57	136,745,778.92
<div>1,744,827.39</div> <div>27,530,379.33</div> <div>3,682,108.35</div> <div>1,735,925.21</div> <div>4,952,718.62</div> <div>75,002,351.38</div> <div>290,022.85</div>	<div>3,584,075.84</div> <div>27,152,189.81</div> <div>4,133,184.23</div> <div>2,193,231.80</div> <div>4,609,214.16</div> <div>80,670,336.85</div> <div>326,083.52</div>	<div>2,759,333.88</div> <div>27,721,988.41</div> <div>4,381,276.48</div> <div>3,140,379.57</div> <div>4,387,586.13</div> <div>86,574,096.81</div> <div>543,728.14</div>	<div>3,480,104.26</div> <div>26,691,542.33</div> <div>3,987,098.82</div> <div>3,814,953.93</div> <div>1,795,295.61</div> <div>92,889,067.86</div> <div>541,982.60</div>	<div>2,654,186.08</div> <div>24,109,961.67</div> <div>4,878,682.68</div> <div>4,229,137.22</div> <div>569,497.99</div> <div>100,051,662.98</div> <div>1,089,348.62</div>
.....	.....	.....	.....	155,744.87
221,284,434.19	232,876,284.85	246,877,540.05	259,296,736.98	274,484,001.03
<div>10,612,595.02</div> <div>2,528,081.42</div> <div>429,585.64</div> <div>2,707,515.21</div>	<div>9,049,583.60</div> <div>2,267,268.71</div> <div>355,417.71</div> <div>2,636,251.52</div>	<div>7,947,290.14</div> <div>3,028,306.12</div> <div>613,465.91</div> <div>2,642,971.05</div>	<div>5,297,137.36</div> <div>3,813,817.24</div> <div>839,973.70</div> <div>2,841,344.30</div>	<div>4,545,744.63</div> <div>5,666,357.71</div> <div>943,682.84</div> <div>2,984,132.94</div>
16,277,777.29	14,308,521.54	14,232,033.22	12,792,272.60	14,139,918.12
<div>75,002,351.38</div> <div>36,331,919.08</div> <div>6,979,074.47</div>	<div>80,670,336.85</div> <div>38,253,203.71</div> <div>7,356,359.46</div>	<div>86,574,096.81</div> <div>40,146,511.52</div> <div>5,788,442.87</div>	<div>92,889,067.86</div> <div>41,962,273.09</div> <div>4,545,757.39</div>	<div>100,051,662.98</div> <div>43,893,598.38</div> <div>4,673,978.72</div>
118,313,344.93	126,279,900.02	132,509,051.20	139,397,098.34	148,619,240.08
<div>47,340,018.06</div> <div>4,952,718.62</div> <div>34,400,575.29</div>	<div>48,935,858.04</div> <div>4,609,214.16</div> <div>38,742,791.09</div>	<div>50,208,313.28</div> <div>4,387,586.13</div> <div>45,540,556.22</div>	<div>53,457,629.91</div> <div>1,795,295.61</div> <div>51,854,440.52</div>	<div>55,525,205.90</div> <div>569,497.99</div> <div>55,638,367.30</div>
.....	.....	.....	.....	8,228.36
86,693,311.97	92,287,863.29	100,136,455.63	107,107,366.04	111,724,842.83
221,284,434.19	232,876,284.85	246,877,540.05	259,296,736.98	274,484,001.03
7.0	5.6	5.4	5.2	7.0

CONSOLIDATED

YEAR.....	1942	1943	1944
Number of municipalities included.....	297	298	298
EARNINGS	\$ c.	\$ c.	\$ c.
Domestic service.....	14,874,937.14	14,933,681.48	15,371,752.19
Commercial light service.....	7,604,860.27	6,713,348.61	7,219,403.43
Commercial power service.....	15,433,320.91	15,687,273.31	16,222,143.48
Municipal power.....	2,026,826.92	2,031,027.12	2,111,454.22
Street lighting.....	1,820,216.28	1,686,149.29	1,729,320.48
Merchandise.....	50,276.58	31,300.28	35,378.31
Miscellaneous.....	680,825.29	782,170.04	897,433.28
Total earnings.....	42,491,263.39	41,864,950.13	43,586,885.39
EXPENSES			
Cost of power supplied by H-E.P.C....	26,459,900.78	26,587,877.32	26,937,460.31
Substation operation.....	581,259.02	612,227.01	611,878.05
Substation maintenance.....	361,643.95	370,797.74	419,983.12
Distribution system, operation and maintenance.....	1,087,818.81	1,143,720.84	1,147,646.14
Line transformer maintenance.....	133,888.95	145,094.88	145,701.29
Meter maintenance.....	440,877.18	443,307.27	445,437.44
Consumers' premises expenses.....	513,565.10	527,810.36	513,953.14
Street lighting, operation and maintenance.....	397,614.93	380,405.50	445,945.93
Promotion of business.....	193,692.33	171,894.14	156,566.54
Billing and collecting.....	1,171,345.63	1,226,185.63	1,264,759.35
General office, salaries and expenses....	1,067,535.39	1,117,334.29	1,139,174.46
Undistributed expense.....	553,599.71	510,448.34	522,204.17
Truck operation and maintenance.....	99,379.20	94,830.33	104,222.84
Interest.....	973,383.83	844,161.48	707,925.20
Sinking fund and principal payments on debentures.....	2,006,148.29	1,871,119.81	1,564,537.45
Depreciation.....	2,853,619.59	2,915,395.96	2,668,439.61
Other reserves.....	732,579.23	951,711.62	852,675.21
Total operating costs and fixed charges.....	39,627,851.92	39,914,322.52	39,648,510.25
Net surplus.....	2,863,411.47	1,950,627.61	3,938,375.14
NUMBER OF CONSUMERS			
Domestic service.....	554,115	565,109	574,469
Commercial light service.....	76,423	75,565	77,376
Power service.....	13,639	13,761	13,792
Total.....	644,177	654,435	665,637

OPERATING REPORTS

1945	1946	1947	1948	1949
304	304	304	308	315
\$ c. 15,543,145.28 8,150,923.90 15,544,085.89 2,134,062.24 1,922,281.13 65,590.57 1,097,719.02	\$ c. 16,852,308.83 8,979,037.16 15,707,154.73 2,161,079.81 1,975,024.68 179,252.65 1,210,440.76	\$ c. 18,172,574.54 9,819,043.11 17,613,525.22 2,216,812.71 2,057,215.86 233,117.94 1,267,485.38	\$ c. 19,506,499.27 9,766,500.29 18,235,664.95 2,343,112.69 2,153,034.35 221,544.94 1,268,351.70	\$ c. 21,137,834.75 10,444,393.84 19,178,070.91 2,475,539.80 2,219,551.02 216,734.17 1,231,076.24
44,457,808.03	47,064,298.62	51,379,774.76	53,494,708.19	56,903,200.73
26,633,166.70 654,305.46 423,473.57	29,131,997.88 753,931.65 444,276.75	31,760,128.32 855,965.41 475,837.06	32,432,823.73 1,019,515.46 595,059.49	36,225,068.75 1,126,138.22 626,041.76
1,243,381.36 155,240.82 470,203.18 581,603.20	1,404,441.08 168,429.61 528,810.47 699,773.37	1,628,081.77 219,164.00 607,758.38 822,675.89	1,967,371.30 249,212.31 699,593.39 1,005,146.07	2,110,892.72 279,383.13 751,382.32 1,061,668.85
487,565.20 171,063.89 1,305,542.48 1,201,915.79 640,831.75 123,720.21 710,300.94	493,443.23 183,606.79 1,428,246.45 1,319,972.30 831,176.06 147,458.42 525,588.16	547,556.40 231,488.57 1,643,780.22 1,521,688.93 840,075.97 202,997.29 423,041.93	602,995.88 343,395.13 1,872,644.99 1,814,028.57 803,047.22 243,560.50 339,213.78	688,584.31 282,618.04 2,077,074.94 1,961,727.80 833,337.54 269,151.54 305,084.60
1,255,825.57	1,239,108.29	992,793.11	903,443.37	842,182.95
2,736,906.64	2,824,871.68	3,002,877.86	3,278,262.63	3,631,483.76
1,216,822.19	1,503,255.70	1,478,990.80	1,051,522.24	634,690.02
40,011,868.95	43,628,387.89	47,254,901.91	49,220,836.06	53,706,511.25
4,445,939.08	3,435,910.73	4,124,872.85	4,273,872.13	3,196,689.48
590,723 81,118 14,339	606,046 85,400 15,115	625,705 87,937 15,867	649,220 91,382 16,439	684,417 94,881 17,184
686,180	706,561	729,509	757,041	796,482

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM

Municipality	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population	2,412	P.V.	501	2,194	2,009
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	1,627.38			202.00	
Substation equipment	2,318.36				675.73
Distribution system—overhead	39,882.32	15,835.23	8,557.36	30,990.24	39,960.28
Distribution system—underground					
Line transformers	25,687.61	12,509.84	5,262.50	18,794.28	16,006.94
Meters	18,315.53	5,773.13	3,818.31	12,735.47	14,902.46
Street light equipment, regular	2,887.70	3,042.88	457.58	3,345.83	5,938.20
Street light equipment, ornamental					
Miscellaneous construction expense	2,733.89	461.72	492.36	690.04	2,130.74
Steam or hydraulic plant					
Old plant					7,846.49
Total plant	93,452.79	37,622.80	18,588.11	66,757.86	87,460.84
Bank and cash balance	7,833.45	1,976.86	23.50	12,238.29	
Securities and investments	7,000.00	12,000.00	8,500.00	33,000.00	15,000.00
Accounts receivable	1,210.18	694.14	727.27	3,278.88	1,275.61
Inventories	965.20				1.80
Sinking fund on local debentures					
Equity in H-E.P.C. systems	136,640.72	21,297.27	25,847.77	51,194.45	45,332.49
Other assets	34.00				1,691.83
Frequency standardization expenditure in suspense	94.75				
Total assets	247,231.09	73,591.07	53,686.65	166,469.48	150,762.57
LIABILITIES					
Debenture balance					
Accounts payable	373.84	60.00	189.03		601.01
Bank overdraft					757.83
Other liabilities	2,094.90		115.00	1,684.96	306.50
Total liabilities	2,468.74	60.00	304.03	1,684.96	1,665.34
RESERVES					
For equity in H-E.P.C. systems	136,640.72	21,297.27	25,847.77	51,194.45	45,332.49
For depreciation	14,844.12	7,156.59	8,422.32	23,796.04	13,949.06
Other reserves		17.23			63.51
Total reserves	151,484.84	28,471.09	34,270.09	74,990.49	59,345.06
SURPLUS					
Debentures paid	14,500.00	8,072.65	6,883.38	38,299.23	37,736.04
Local sinking fund					
Operating surplus	*78,777.51	36,987.33	12,229.15	51,494.80	52,016.13
Net frequency standardization expenditure charged this year					
Total surplus	93,277.51	45,059.98	19,112.53	89,794.03	89,752.17
Total liabilities, reserves and surplus	247,231.09	73,591.07	53,686.65	166,469.48	150,762.57
Percentage of net debt to total assets	2.2	0.1	1.1	1.5	1.6

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”

Hydro Municipalities as at December 31, 1949

Almonte 2,623	Alvinston 668	Amherstburg 3,313	Ancaster Twp. V.A.	Apple Hill P.V.	Arkona 389	Arnprior 4,552
\$ c. 10,037.25 24,581.90 38,990.29	\$ c. 2,058.60 17,732.70	\$ c. 58,911.61 657.77 47,646.38 23,323.88 3,079.79 5,598.72 3,838.79	\$ c. 354.71 37,840.79	\$ c. 169.06 3,064.80	\$ c. 11,128.32	\$ c. 8,241.00 39,967.30
22,456.79 15,978.50 6,592.01 1,343.00 110,647.67	5,169.47 4,901.80 1,473.27 200.00	22,994.31 9,890.87 1,863.96 1,424.13	22,994.31 9,890.87 1,863.96 1,424.13	1,792.47 1,545.56 421.12 7.85	3,521.48 3,129.45 1,378.88 288.24	26,900.52 20,910.24 14,080.82 53.41
230,627.41	31,535.84	143,056.94	74,368.77	7,000.86	19,446.37	110,153.29
16,533.92 8,000.00 3,252.04 6,966.02	6,057.49 11,000.00 156.06	1,757.24 20,350.00 1,727.45 185.14	5,421.16 4,000.00 1,352.86 554.40	5,421.16 4,000.00 87.42	3,100.38 4,000.00 57.56	6,808.90 39,000.00 790.18 10,603.48
4,646.90	25,917.21	103,845.29 19.32	34,134.79	5,853.84	11,571.87	30,163.91
270,026.29	74,666.60	270,941.38	110,410.82	22,363.28	38,176.18	197,519.76
17,231.13 4,592.91 541.78	435.82 55.00	222.32 6,303.83	19,473.31 566.44 303.35	540.87	710.17 27.69	3,612.08 6,809.68 2,181.15
22,365.82	490.82	6,526.15	20,343.10	540.87	737.86	12,602.91
4,646.90 46,718.34 1,556.52	25,917.21 14,318.65 59.50	103,845.29 38,951.15 413.56	34,134.79 11,982.60 48.02	5,853.84 3,794.41	11,571.87 6,418.00	30,163.91 9,442.40
52,921.76	40,295.36	143,210.00	46,165.41	9,648.25	17,989.87	39,606.31
54,768.87 139,969.84	23,529.24 10,351.18	32,053.60 89,151.63	14,110.28 29,792.03	5,080.12 7,094.04	13,112.83 6,335.62	51,857.05 93,453.49
194,738.71 270,026.29	33,880.42 74,666.60	121,205.23 270,941.38	43,902.31 110,410.82	12,174.16 22,363.28	19,448.45 38,176.18	145,310.54 197,519.76
8.4	1.0	4.0	26.7	3.3	2.8	7.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Arthur	Athens	Aurora	Aylmer	Ayr
Population	1,192	760	3,392	3,280	837
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings			1,000.00	11,147.41	125.00
Substation equipment			1,491.05		
Distribution system—overhead	19,233.61	14,799.19	44,067.36	42,955.55	14,651.71
Distribution system—underground					
Line transformers	12,706.12	4,096.74	31,607.25	39,221.35	8,664.07
Meters	6,234.28	4,243.62	21,248.57	21,677.67	5,747.25
Street light equipment, regular	2,214.38	698.90	7,991.81	10,199.97	1,170.78
Street light equipment, ornamental					
Miscellaneous construction expense	620.69	84.34	13,457.05	6,835.90	222.43
Steam or hydraulic plant					
Old plant	1,086.62				4,002.53
Total plant	42,095.70	23,922.79	120,863.09	132,037.85	34,583.77
Bank and cash balance		6,015.70	30.00	1,781.11	1,150.06
Securities and investments	4,000.00	9,000.00	12,000.00	12,000.00	8,171.79
Accounts receivable	100.28	2,340.68	475.75	1,871.53	819.57
Inventories				19.97	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	33,650.58	12,525.13	22,602.34	84,246.09	27,588.24
Other assets				1.14	
Frequency standardization expenditure in suspense			53.49		
Total assets	79,846.56	53,804.30	156,024.67	231,957.69	72,313.43
LIABILITIES					
Debenture balance	1,681.44				
Accounts payable	601.88	2,337.27		790.10	
Bank overdraft	109.52		241.52		
Other liabilities	352.60		864.00	1,047.66	78.64
Total liabilities	2,745.44	2,337.27	1,105.52	1,837.76	78.64
RESERVES					
For equity in H-E.P.C. systems	33,650.58	12,525.13	22,602.34	84,246.09	27,588.24
For depreciation	16,795.14	4,794.11	34,252.97	33,920.86	8,911.10
Other reserves		206.06		622.24	
Total reserves	50,445.72	17,525.30	56,855.31	118,789.19	36,499.34
SURPLUS					
Debentures paid	23,318.56	12,988.39		38,701.92	17,503.38
Local sinking fund					
Operating surplus	3,336.84	20,953.34	*98,063.84	72,628.82	18,232.07
Net frequency standardization expense charged this year					
Total surplus	26,655.40	33,941.73	98,063.84	111,330.74	35,735.45
Total liabilities, reserves and surplus	79,846.56	53,804.30	156,024.67	231,957.69	72,313.43
Percentage of net debt to total assets	5.9	5.7	0.8	1.2	0.2

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

"A"—Continued

Hydro Municipalities as at December 31, 1949

Baden P.V.	Barrie 11,914	Bath 368	Beachville P.V.	Beamsville 1,591	Beaverton 943	Beeton 579
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
882.40	27,840.54		176.13		499.50	
	74,266.38					428.50
11,454.89	105,192.45	11,391.04	19,076.01	21,999.76	28,172.02	13,568.25
	66,582.89					
5,020.40	83,066.00	2,010.90	9,579.83	14,338.23	12,634.10	3,689.32
5,413.73	82,175.73	1,806.04	5,426.72	10,833.23	9,425.87	3,674.87
748.17	14,327.10	762.80	542.79	3,086.49	2,028.87	2,275.07
207.17	2,075.00	727.38	1,351.13		98.18	170.13
23,726.76	455,526.09	16,698.16	36,152.61	50,257.71	52,858.54	23,806.14
8,184.39	16,815.04	603.17	2,853.38	5,147.42	336.69	919.93
6,500.00	118,100.00		21,500.00	25,000.00	7,200.00	7,000.00
33.69	3,811.40	125.34	737.98	508.86	317.66	102.12
	17,481.75					
57,046.80	301,984.07	4,544.75	74,880.87	16,238.60	35,696.52	26,467.66
	188.07				1,183.01	
95,491.64	913,906.42	21,971.42	136,124.84	97,152.59	97,592.42	58,295.85
		1,693.21				
	103.03	1.34	3,223.99	963.78	488.49	37.96
10.00	6,547.27	180.00		908.90	1,215.27	150.00
10.00	6,650.30	1,874.55	3,223.99	1,872.68	1,703.76	187.96
57,046.80	301,984.07	4,544.75	74,880.87	16,238.60	35,696.52	26,467.66
4,654.47	161,297.57	3,947.67	11,091.47	14,983.69	21,564.60	8,245.00
	400.00				400.00	86.50
61,701.27	463,681.64	8,492.42	85,972.34	31,222.29	57,661.12	34,799.16
5,000.00	65,365.68	5,806.79	5,536.66	37,500.00	12,839.34	13,610.31
28,780.37	378,208.80	5,797.66	41,391.85	26,557.62	25,388.20	9,698.42
33,780.37	443,574.48	11,604.45	46,928.51	64,057.62	38,227.54	23,308.73
95,491.64	913,906.42	21,971.42	136,124.84	97,152.59	97,592.42	58,295.85
0.0	1.1	10.8	5.3	2.3	2.8	0.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Belle River	Belleville	Blenheim	Bloomfield	Blyth
Population.....	1,250	17,637	2,272	622	690
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	204.20	44,883.51	14,874.79		
Substation equipment.....		137,925.17	1,264.64		
Distribution system—overhead....	27,396.11	203,685.05	52,049.27	11,766.22	13,953.49
Distribution system—underground.					
Line transformers.....	9,998.46	84,021.86	23,249.97	3,421.71	6,666.59
Meters.....	8,191.13	112,402.92	19,316.01	4,198.74	4,224.28
Street light equipment, regular....	2,720.54	45,097.86	5,208.95	1,084.15	1,554.68
Street light equipment, ornamental			1,482.97		
Miscellaneous construction expense	274.69	28,015.98	468.50		323.08
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	48,785.13	656,032.35	117,915.10	20,470.82	26,722.12
Bank and cash balance.....			573.66	1,000.37	3,567.46
Securities and investments.....	2,000.00	35,000.00	4,000.00	17,500.00	8,000.00
Accounts receivable.....	103.59	34,472.08	830.15	177.96	529.34
Inventories.....		29,123.07	1,847.00		
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	20,518.47	367,644.50	68,795.86	12,286.36	18,290.83
Other assets.....					
Frequency standardization expendi- ture in suspense.....					
Total assets.....	71,407.19	1,122,272.00	193,961.77	51,435.51	57,109.75
LIABILITIES					
Debenture balance.....					
Accounts payable.....	993.75		2,811.37	309.77	488.97
Bank overdraft.....	196.65	2,033.98			
Other liabilities.....	320.02	16,744.14	1,772.97	185.00	173.79
Total liabilities.....	1,510.42	18,778.12	4,584.34	494.77	662.76
RESERVES					
For equity in H-E.P.C. systems....	20,518.47	367,644.50	68,795.86	12,286.36	18,290.83
For depreciation.....	14,314.77	111,118.43	33,234.91	10,164.05	8,761.22
Other reserves.....		4,706.31	279.09		
Total reserves.....	34,833.24	483,469.24	102,309.86	22,450.41	27,052.05
SURPLUS					
Debentures paid.....	8,500.00	174,997.19	14,000.00	9,796.58	16,032.52
Local sinking fund.....					
Operating surplus.....	26,563.53	445,027.45	73,067.57	18,693.75	13,362.42
Net frequency standardization ex- pense charged this year.....					
Total surplus.....	35,063.53	620,024.64	87,067.57	28,490.33	29,394.94
Total liabilities, reserves and surplus.	71,407.19	1,122,272.00	193,961.77	51,435.51	57,109.75
Percentage of net debt to total assets.	3.0	2.5	2.5	1.3	1.7

“A”—Continued

Hydro Municipalities as at December 31, 1949

Bobcaygeon	Bolton	Bothwell	Bowmanville	Bradford	Braeside	Brampton
1,080	796	704	4,315	1,373	420	7,124
\$ c. 740.00	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
30,574.18	14,472.42	9,961.60	35,685.49 63,019.08 59,401.81	5,644.18 388.50 31,762.61	6,175.76 53,005.67 79,210.23	
10,490.48	9,478.10	5,439.15	23,414.07	15,158.68	2,290.28	76,408.36
10,129.49	5,714.75	4,715.65	31,500.38	12,523.07	1,916.25	48,030.08
5,676.53	902.39	4,709.03	10,257.05	1,022.42	62.94	13,887.44
196.00	1,918.42	1,131.22 700.87	16,181.40	2,304.72		3,525.00
75,000.00						
132,806.68	32,486.08	26,657.52	239,459.28	68,804.18	7,827.23	280,242.54
	6,422.40		35,788.74	4,607.79	4,772.64	1,109.32
	12,000.00	13,000.00	85,000.00	2,500.00		51,500.00
291.86	155.27	183.12	9,593.71	523.93	942.91	255.58
2,267.19	283.00		12,136.69	4,819.34		6,208.14
1,508.57	31,014.86	28,688.89	141,446.78 6.46	33,345.90 200.00	1,982.27	307,995.31 126.82
136,874.30	82,361.61	68,529.53	523,431.66	114,801.14	15,525.05	647,437.71
35,561.86					4,908.60	
2,849.92	268.43	1,266.00	13,585.94	466.18	419.58	2,939.19
61.25		24.01				3,838.32
	241.39	1,232.17	1,783.32	687.44	135.00	2,350.00
38,473.03	509.82	2,522.18	15,369.26	1,153.62	5,463.18	9,127.51
1,508.57	31,014.86	28,688.89	141,446.78	33,345.90	1,982.27	307,995.31
35,747.69	10,419.57	10,062.09	37,706.95	18,558.13	733.25	95,967.75
		15.13		29.88		150.00
37,256.26	41,434.43	38,766.11	179,153.73	51,933.91	2,715.52	404,113.06
54,438.14	12,500.00	5,534.19	71,000.00	23,351.06	1,091.40	69,050.64
6,706.87	27,917.36	21,707.05	257,908.67	38,362.55	6,254.95	165,146.50
61,145.01	40,417.36	27,241.24	328,908.67	61,713.61	7,346.35	234,197.14
136,874.30	82,361.61	68,529.53	523,431.66	114,801.14	15,525.05	647,437.71
28.4	1.0	4.7	4.0	1.4	40.3	2.7

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Brantford	Brantford Twp. V.A.	Brechin	Bridgeport	Brigden
Population.....	35,807		P.V.	P.V.	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	181,406.47	2,930.39			1,482.03
Substation equipment.....	304,721.96	44,460.40			
Distribution system—overhead.....	340,513.70	165,552.45	1,589.54	15,670.05	11,807.75
Distribution system—underground.....	2,277.51				
Line transformers.....	304,677.12	66,974.50	2,432.89	9,496.59	4,150.39
Meters.....	214,049.34	55,340.33	1,058.32	5,601.81	3,953.21
Street light equipment, regular.....	55,678.22	13,151.30	197.38	1,789.35	509.23
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	48,159.58	9,156.91	546.92	15.86	108.60
Steam or hydraulic plant.....					
Old plant.....	6,000.00				
Total plant.....	1,457,483.90	357,566.28	5,825.05	32,573.66	22,011.21
Bank and cash balance.....	4,021.05	15,489.71	2,534.34	2,037.13	2,167.14
Securities and investments.....	137,000.00	13,000.00	2,500.00	2,000.00	6,800.00
Accounts receivable.....	24,962.96	1,826.85	33.89	197.75	95.82
Inventories.....	45,477.28	7,709.29	24.42		
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	1,724,930.06	78,300.35	12,376.09	13,503.85	20,168.69
Other assets.....	384.77	263.50			
Frequency standardization expenditure in suspense.....	1,425.00				
Total assets.....	3,395,685.02	474,155.98	23,293.79	50,312.39	51,242.86
LIABILITIES					
Debenture balance.....		176,341.08	102.77		
Accounts payable.....	29,804.57	11,364.27	168.44	1,265.48	653.05
Bank overdraft.....	29,213.05				
Other liabilities.....	32,496.05	1,887.56	25.00	210.00	5.00
Total liabilities.....	91,513.67	189,592.91	296.21	1,475.48	658.05
RESERVES					
For equity in H-E.P.C. systems.....	1,724,930.06	78,300.35	12,376.09	13,503.85	20,168.69
For depreciation.....	510,636.49	66,980.15	795.09	10,182.50	6,782.61
Other reserves.....	8,789.29	65.86	8.49		97.24
Total reserves.....	2,244,355.84	145,346.36	13,179.67	23,686.35	27,048.54
SURPLUS					
Debentures paid.....	530,000.00	70,784.58	3,108.15	12,368.03	8,000.00
Local sinking fund.....					
Operating surplus.....	*529,815.51	68,432.13	6,709.76	12,782.53	15,536.27
Net frequency standardization expense charged this year.....					
Total surplus.....	1,059,815.51	139,216.71	9,817.91	25,150.56	23,536.27
Total liabilities, reserves and surplus.....	3,395,685.02	474,155.98	23,293.79	50,312.39	51,242.86
Percentage of net debt to total assets.....	5.5	47.9	2.7	4.0	2.1

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Hydro Municipalities as at December 31, 1949

Brighton 1,947	Brockville 11,852	Brussels 772	Burford P.V.	Burgessville P.V.	Burlington 5,105	Caledonia 1,500
\$ c. 600.00	\$ c. 51,369.35	\$ c.	\$ c. 802.00	\$ c.	\$ c. 18,281.47	\$ c. 656.01
26,966.11	156,655.84 125,482.76	24,132.28	13,610.62	4,531.72	3,900.00 116,346.38	27,261.68
10,486.72	85,801.13	7,548.91	8,022.35	4,944.01	53,130.82	15,347.87
10,715.07	70,250.25	6,155.81	6,925.98	1,874.76	40,901.59	11,545.03
1,305.85	31,119.19	1,707.79	524.76	261.02	11,025.74	3,297.36
1,487.04	3,636.80	251.01	105.17	35.00	13,217.56	1,388.40
.....
51,560.79	524,315.32	39,795.80	29,990.88	11,646.51	256,803.56	59,496.35
3,749.46	12,035.37	920.46	.....	1,488.08	9,507.25	831.23
10,000.00	53,450.00	15,000.00	4,000.00	2,800.00	7,600.00	200.00
4,665.59	17,132.28	872.30	672.05	26.40	1,078.74	969.59
6,436.76	8,685.90	.....	15.37	.....	987.22	2,684.18
25,536.05	344,915.39	23,976.06	25,550.36	9,450.94	16,397.25	41,440.81
.....	1,005.05	100.00	30.00	.....	31,697.62	69.00
.....
101,948.65	961,539.31	80,664.62	60,258.66	25,411.93	324,071.64	105,691.16
.....	.....	.....	.....	.....	104,973.13	4,500.00
482.56	13,187.56	6,827.11	452.15	109.17	5,267.54	219.72
1,220.39	5,719.53	104.55	1,484.19	.....	.....	.....
.....	.....	.....	105.30	17.50	4,792.50	505.69
1,702.95	18,907.09	6,931.66	2,041.64	126.67	115,033.17	5,225.41
25,536.05	344,915.39	23,976.06	25,550.36	9,450.94	16,397.25	41,440.81
8,758.01	136,125.49	8,657.68	7,723.16	5,646.19	33,544.53	8,651.66
219.23	13,931.85	.....	.....	.....	31,697.62	.....
34,513.29	494,972.73	32,633.74	33,273.52	15,097.13	81,639.40	50,092.47
25,000.00	174,869.92	21,000.00	9,000.00	3,500.00	55,526.87	5,124.00
40,732.41	272,789.57	20,099.22	15,943.50	6,688.13	71,872.20	45,249.28
.....
65,732.41	447,659.49	41,099.22	24,943.50	10,188.13	127,399.07	50,373.28
101,948.65	961,539.31	80,664.62	60,258.66	25,411.93	324,071.64	105,691.16
2.2	3.1	12.2	5.9	0.8	41.7	8.1

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Campbell- ville P.V.	Canning- ton 818	Cardinal 1,711	Carleton Place 4,408	Cayuga 710
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				13,390.32	
Substation equipment.....				16,369.37	
Distribution system—overhead....	3,219.88	15,489.13	16,294.03	56,057.84	23,087.38
Distribution system—underground.					
Line transformers.....	1,643.46	8,654.27	7,464.78	22,081.35	10,821.91
Meters.....	1,228.85	6,591.20	5,465.63	25,690.87	6,712.76
Street light equipment, regular....	335.61	2,566.75	1,061.30	7,575.16	1,473.48
Street light equipment, ornamental					
Miscellaneous construction expense	6.82	43.50	523.00	682.70	539.32
Steam or hydraulic plant.....					
Old plant.....			3,474.80		
Total plant.....	6,434.62	33,344.85	34,283.54	141,847.61	42,634.85
Bank and cash balance.....	561.23	3,403.78	519.65	7,471.66	11,504.59
Securities and investments.....	3,600.00	6,000.00	1,500.00	39,500.00	5,200.00
Accounts receivable.....	40.34	985.48	205.59	830.83	2,000.71
Inventories.....		413.85		2,353.32	209.39
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	5,304.90	27,198.94	14,533.59	145,879.79	18,779.02
Other assets.....		580.70			.79
Frequency standardization expendi- ture in suspense.....					
Total assets.....	15,941.09	71,927.60	51,042.37	337,883.21	80,329.35
LIABILITIES					
Debenture balance.....			1,146.32		
Accounts payable.....	175.77	867.71	1,223.12	416.51	423.64
Bank overdraft.....					
Other liabilities.....		45.00	5.00	1,891.06	200.00
Total liabilities.....	175.77	912.71	2,374.44	2,307.57	623.64
RESERVES					
For equity in H-E.P.C. systems....	5,304.90	27,198.94	14,533.59	145,879.79	18,779.02
For depreciation.....	2,464.71	14,681.46	3,564.98	27,956.89	11,663.03
Other reserves.....		76.05	26.65	798.94	149.06
Total reserves.....	7,769.61	41,956.45	18,125.22	174,635.62	30,591.11
SURPLUS					
Debentures paid.....	5,447.77	14,532.42	13,853.68	58,116.83	20,000.00
Local sinking fund.....					
Operating surplus.....	2,547.94	14,526.02	16,689.03	102,823.19	29,114.60
Net frequency standardization ex- pense charged this year.....					
Total surplus.....	7,995.71	29,058.44	30,542.71	160,940.02	49,114.60
Total liabilities, reserves and surplus.	15,941.09	71,927.60	51,042.37	337,883.21	80,329.35
Percentage of net debt to total assets.	1.7	2.0	6.5	1.2	1.0

"A"—Continued

Hydro Municipalities as at December 31, 1949

Chatham 20,263	Chatsworth 392	Chesley 1,772	Chesterville 1,241	Chippawa 1,504	Clifford 436	Clinton 2,409
\$ c. 187,597.06 219,287.18 279,715.15 190,803.12 169,320.93 112,649.14 38,338.88 35,426.10 49,906.84 42,752.31	\$ c. 364.89 5,998.76 3,988.94 3,203.51 582.77 82.87	\$ c. 6,000.00 2,305.58 31,303.57 18,017.83 11,577.86 3,225.37 424.93	\$ c. 3,360.25 13,772.98 6,374.71 6,972.96 1,866.40 746.83	\$ c. 1,434.46 19,721.33 11,470.29 8,269.70 7,661.43 2,081.99	\$ c. 10,227.74 31,125.30 30,105.50 5,384.82 3,308.31 1,038.17 410.78	\$ c. 10,227.74 31,125.30 30,105.50 20,030.25 16,056.88 5,748.22 4,132.95
1,325,796.71	14,221.74	72,855.14	33,094.13	50,639.20	20,558.01	117,426.84
50.00	2,788.12		6,671.36	1,637.43	344.19	1,059.26
50,000.00	1,000.00	4,000.00	7,000.00	4,500.00	3,500.00	3,500.00
51,821.53	150.20	576.96	520.31	12.00	39.03	573.68
27,251.90		604.13	73.75	312.04		5,436.99
724,003.50	8,742.53	65,051.70	44,901.17	30,640.44	13,929.81	84,433.15
4,835.00				3.38	17.00	101.90
2,200.00						960.00
2,185,958.64	26,902.59	143,087.93	92,260.72	87,744.49	38,388.04	213,491.82
196,364.35					2,350.59	
	285.13	28.80	84.96	498.60	953.58	1,151.43
105,494.55		2,848.64				
44,796.46	52.23		33.00	970.00	5.00	1,506.45
346,655.36	337.36	2,877.44	117.96	1,468.60	3,309.17	2,657.88
724,003.50	8,742.53	65,051.70	44,901.17	30,640.44	13,929.81	84,433.15
272,273.73	4,620.37	20,356.61	10,390.10	12,131.70	6,017.27	32,066.15
45,316.10						448.09
1,041,593.33	13,362.90	85,408.31	55,291.27	42,772.14	19,947.08	116,947.39
373,635.65	5,014.10	24,410.34	5,889.32	13,350.00	5,649.41	44,500.00
*424,074.30	8,188.23	30,391.84	30,962.17	30,153.75	9,482.38	*49,386.55
797,709.95	13,202.33	54,802.18	36,851.49	43,503.75	15,131.79	93,886.55
2,185,958.64	26,902.59	143,087.93	92,260.72	87,744.49	38,388.04	213,491.82
21.9	1.8	3.7	0.2	2.6	13.5	2.1

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Cobden	Cobourg	Colborne	Coldwater	Colling- wood	
Population.....	691	6,459	1,049	645	6,729	
ASSETS	\$	c.	\$	c.	\$	c.
Lands and buildings.....		32,227.73		275.00	15,950.08	
Substation equipment.....		1,668.35			25,847.23	
Distribution system—overhead....	7,398.80	126,363.13	14,038.42	11,841.76	79,676.42	
Distribution system—underground.						
Line transformers.....	4,174.02	49,106.26	3,730.16	8,211.44	48,751.68	
Meters.....	3,753.79	45,152.04	6,162.88	5,203.25	40,687.80	
Street light equipment, regular....	637.21	18,418.65	2,629.54	3,310.69	21,680.32	
Street light equipment, ornamental						
Miscellaneous construction expense	73.89	8,049.49	4,414.86	268.89	3,787.48	
Steam or hydraulic plant.....						
Old plant.....	2,853.85					
Total plant.....	18,891.56	280,985.65	30,975.86	29,111.03	236,381.01	
Bank and cash balance.....	7,346.27	8,828.34	636.41	11,063.10	1,117.68	
Securities and investments.....		45,000.00	5,500.00	3,500.00	15,000.00	
Accounts receivable.....	108.29	9,322.75	4,192.95	1,836.56	2,085.84	
Inventories.....		16,222.35	7,620.10			
Sinking fund on local debentures.						
Equity in H-E.P.C. systems.....	5,737.86	109,345.07	11,054.21	25,049.91	247,950.68	
Other assets.....		16.48			4,185.64	
Frequency standardization expendi- ture in suspense.....						
Total assets.....	32,083.98	469,720.64	59,979.53	70,560.60	506,720.85	
LIABILITIES						
Debenture balance.....		20,826.93	2,133.91			
Accounts payable.....	871.85	316.16	21.26	841.36	306.60	
Bank overdraft.....						
Other liabilities.....	127.50	5,318.07	359.00	145.37	4,431.44	
Total liabilities.....	999.35	26,461.16	2,514.17	986.72	4,738.04	
RESERVES						
For equity in H-E.P.C. systems...	5,737.86	109,345.07	11,054.21	25,049.91	247,950.68	
For depreciation.....	668.52	70,308.18	6,599.91	11,853.82	54,192.90	
Other reserves.....				46.00	150.00	
Total reserves.....	6,406.38	179,653.25	17,654.12	36,949.73	302,293.58	
SURPLUS						
Debentures paid.....	7,803.27	85,166.57	10,060.68	6,867.47	38,183.42	
Local sinking fund.....						
Operating surplus.....	16,874.98	178,439.66	29,750.56	25,756.68	161,505.81	
Net frequency standardization ex- pense charged this year.....						
Total surplus.....	24,678.25	263,606.23	39,811.24	32,624.15	199,689.23	
Total liabilities, reserves and surplus.	32,083.98	469,720.64	59,979.53	70,560.60	506,720.85	
Percentage of net debt to total assets.	3.8	7.3	5.1	2.2	1.8	

“A”—Continued

Hydro Municipalities as at December 31, 1949

Comber P.V.	Cookstown P.V.	Cottam P.V.	Courtright 455	Creemore 750	Dashwood P.V.	Delaware P.V.
\$ c. 498.22	\$ c. 70.00	\$ c. 475.63	\$ c.	\$ c.	\$ c.	\$ c.
11,413.50	392.95 13,314.28	12,324.49	7,612.27	9,222.11	4,208.38	6,328.18
9,629.80	4,085.45	4,627.86	2,022.18	6,899.16	4,236.55	1,950.84
4,046.83	3,622.23	3,590.80	1,948.42	4,947.94	2,855.17	1,869.32
857.40	1,543.85	457.02	470.44	358.56	364.52	205.24
204.69	42.40	378.50	550.46		291.87	203.81
26,650.44	23,071.16	21,854.30	12,603.77	21,427.77	11,956.49	10,557.39
978.65	218.57	6,254.79	293.36	6,436.42	1,871.88	3,458.28
4,500.00	11,000.00		7,000.00		5,000.00	2,500.00
450.50	617.44	128.82	140.06	107.73	60.26	386.00
108.67				60.25		
30,762.59	10,101.33	8,816.96	10,053.70	20,922.91 362.50	15,298.14	6,500.56
63,450.85	45,008.50	37,054.87	30,090.89	49,317.58	34,186.77	23,402.23
1,452.75	1,156.30	171.36	497.84	1,081.58	282.34	641.63
78.23	54.25	120.71	5.00	168.00		5.00
1,530.98	1,210.55	292.07	502.84	1,249.58	282.34	646.63
30,762.59	10,101.33	8,816.96	10,053.70	20,922.91	15,298.14	6,500.56
9,546.52	7,738.83	6,988.81	4,150.93	5,236.55	4,822.14	1,452.01
25.38		37.95	5.24	41.00		22.53
40,334.49	17,840.16	15,843.72	14,209.87	26,200.46	20,120.28	7,975.10
7,700.00	12,000.85	9,000.22	8,138.35	2,823.61	3,400.00	4,000.00
13,885.38	13,956.94	11,918.86	7,239.83	19,043.93	10,384.15	10,780.50
21,585.38	25,957.79	20,919.08	15,378.18	21,867.54	13,784.15	14,780.50
63,450.85	45,008.50	37,054.87	30,090.89	49,317.58	34,186.77	23,402.23
4.7	3.5	1.0	2.5	4.4	1.5	3.8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Delhi	Deseronto	Dorchester	Drayton	Dresden
Population.....	2,410	1,473	P.V.	575	1,965
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,472.54	1,097.41			1,700.00
Substation equipment.....		161.18			523.00
Distribution system—overhead.....	42,060.95	16,890.17	11,581.48	11,286.84	33,157.24
Distribution system—underground.....					
Line transformers.....	22,269.67	10,802.03	4,412.36	7,900.22	12,800.60
Meters.....	20,566.14	7,412.48	3,768.01	4,839.60	14,146.98
Street light equipment, regular.....	5,810.74	2,483.52	2,624.60	949.03	1,835.15
Street light equipment, ornamental.....					
Miscellaneous construction expense.....	7,046.06	670.11	1,038.08	113.49	4,439.43
Steam or hydraulic plant.....					
Old plant.....	28,518.74				
Total plant.....	128,744.84	39,516.90	23,424.53	25,089.18	68,602.40
Bank and cash balance.....	10,226.50	1,420.52	2,283.15	582.29	1,411.52
Securities and investments.....	18,500.00	6,000.00	6,400.00	4,000.00	8,000.00
Accounts receivable.....	2,158.26	3,546.43	114.89	175.78	2,932.70
Inventories.....	10,078.19	6,498.64	279.44		5,348.72
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	20,353.70	15,803.54	13,685.95	22,959.36	58,302.49
Other assets.....	51.90			15.00	33.25
Frequency standardization expenditure in suspense.....					
Total assets.....	190,113.39	72,786.03	46,187.96	52,821.61	144,631.08
LIABILITIES					
Debenture balance.....	49,091.47				
Accounts payable.....		654.23	2,053.17	200.69	597.18
Bank overdraft.....					
Other liabilities.....	1,942.75	329.89	24.22	25.00	493.70
Total liabilities.....	51,034.22	984.12	2,077.39	225.69	1,090.88
RESERVES					
For equity in H-E.P.C. systems.....	20,353.70	15,803.54	13,685.95	22,959.36	58,302.49
For depreciation.....	19,746.06	3,485.27	6,530.59	8,247.50	5,729.87
Other reserves.....	97.12				605.34
Total reserves.....	40,196.88	19,288.81	20,216.54	31,206.86	64,637.70
SURPLUS					
Debentures paid.....	35,908.53	15,000.00	4,300.00	9,500.00	11,423.24
Local sinking fund.....					
Operating surplus.....	62,973.76	37,513.10	19,594.03	11,889.06	67,479.26
Net frequency standardization expense charged this year.....					
Total surplus.....	98,882.29	52,513.10	23,894.03	21,389.06	78,902.50
Total liabilities, reserves and surplus.....	190,113.39	72,786.03	46,187.96	52,821.61	144,631.08
Percentage of net debt to total assets.....	30.1	1.7	6.4	0.8	1.3

“A”—Continued

Hydro Municipalities as at December 31, 1949

Drumbo P.V.	Dublin P.V.	Dundalk 771	Dundas 6,089	Dunnville 3,997	Durham 2,158	Dutton 818
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	218.00	21,120.00	3,821.21	210.28	75.11
6,431.57	6,659.56	9,038.49	24,500.23	39,710.85	546.02	.....
.....	.....	.....	69,323.66	46,468.23	26,196.95	11,287.00
4,844.58	3,730.63	7,038.77	37,042.63	37,386.33	20,056.85	8,120.08
3,200.96	1,897.35	4,884.07	37,033.23	29,671.71	11,613.63	4,666.18
483.79	910.63	1,393.25	12,410.65	10,221.81	3,256.66	754.38
.....	.....	.....	1,154.52	.....	.....	.....
.....	.....	136.00	4,826.25	6,977.53	565.92	319.56
.....	.....	.....	.....	10,717.62	.....	.....
14,960.90	13,198.17	22,708.58	207,411.17	184,975.29	62,446.31	25,222.31
960.54	4,867.29	8,045.58	2,245.04	2,753.87	829.08	1,295.26
8,500.00	1,500.00	11,000.00	30,500.00	30,000.00	3,500.00	7,500.00
656.35	157.55	113.50	585.15	175.83	1,554.67	163.14
.....	.....	.....	.....	4,250.05	.....	.....
12,129.54	9,657.37	23,456.20	257,801.67	118,690.25	54,036.54	34,558.65
.....	.....	.....	265.53	.....	147.38	.....
37,207.33	29,380.38	65,323.86	498,808.56	340,845.29	122,513.98	68,739.36
1,137.21	446.53	8.33	1,384.31	435.49	2,329.37	351.56
90.00	8.00	.....	3,205.93	.....	.....	.....
.....	.....	.....	10,849.56	2,353.91	40.00	197.36
1,227.21	454.53	8.33	15,439.80	2,789.40	2,369.37	548.92
12,129.54	9,657.37	23,456.20	257,801.67	118,690.25	54,036.54	34,558.65
7,639.00	7,562.27	8,580.55	85,378.89	51,751.68	16,670.94	11,916.52
.....	.....	.....	134.66	.....	.....	.....
19,768.54	17,219.64	32,036.75	343,315.22	170,441.93	70,707.48	46,475.17
4,500.00	6,200.00	5,727.27	53,000.00	75,500.00	25,323.97	8,407.49
11,711.58	5,506.21	27,551.51	87,053.54	92,113.96	24,113.16	13,307.78
16,211.58	11,706.21	33,278.78	140,053.54	167,613.96	49,437.13	21,715.27
37,207.33	29,380.38	65,323.86	498,808.56	340,845.29	122,513.98	68,739.36
4.9	2.3	0.0	6.4	1.3	3.5	1.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	East York Twp. V.A.	Elmira 2,330	Elmvale P.V.	Elmwood P.V.
Population				
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	51,585.42	30,344.21	156.25	1,680.16
Substation equipment	148,922.31	47,546.96	2,273.07	.....
Distribution system—overhead	592,919.88	52,218.11	13,535.60	5,967.24
Distribution system—underground .....	.....	540.21	.....	.....
Line transformers	233,112.74	34,047.95	7,982.25	3,105.49
Meters	266,829.92	21,402.21	6,939.29	2,381.79
Street light equipment, regular	97,538.57	2,859.29	6,009.93	721.69
Street light equipment, ornamental .....	.....	.....	.....	.....
Miscellaneous construction expense	30,488.81	1,583.83	64.93	.....
Steam or hydraulic plant .....	.....	.....	.....	.....
Old plant .....	.....	2,168.08	.....	.....
Total plant	1,421,397.65	192,710.85	36,961.32	13,856.37
Bank and cash balance	18,875.93	68.90	1,074.67	4,597.28
Securities and investments .....	.....	.....	1,500.00	3,100.00
Accounts receivable	53,504.65	1,075.02	267.83	137.27
Inventories	19,838.14	.....	37.65	.....
Sinking fund on local debentures .....	.....	.....	.....	.....
Equity in H-E.P.C. systems	584,367.74	138,464.91	25,499.57	7,979.83
Other assets	376.61	290.86	.....	10.41
Frequency standardization expenditure in suspense	9,331.31	2,525.00	.....	.....
Total assets	2,107,692.03	335,135.54	65,341.04	29,681.16
LIABILITIES				
Debenture balance .....	.....	1,146.32	.....	.....
Accounts payable	164,988.07	577.25	486.35	1,485.93
Bank overdraft .....	.....	.....	.....	.....
Other liabilities	12,876.85	1,304.05	.....	1,310.00
Total liabilities	177,864.92	3,027.62	486.35	2,795.93
RESERVES				
For equity in H-E.P.C. systems	584,367.74	138,464.91	25,499.57	7,979.83
For depreciation	257,180.12	45,317.38	5,905.18	4,836.25
Other reserves	2,719.94	.....	3.68	.....
Total reserves	844,267.80	183,782.29	31,408.43	12,816.08
SURPLUS				
Debentures paid	349,763.36	36,022.18	6,544.07	6,106.38
Local sinking fund .....	.....	.....	.....	.....
Operating surplus	*735,795.95	*112,303.45	26,902.19	7,962.77
Net frequency standardization expense charged this year .....	.....	.....	.....	.....
Total surplus	1,085,559.31	148,325.63	33,446.26	14,069.15
Total liabilities, reserves and surplus	2,107,692.03	335,135.54	65,341.04	29,681.16
Percentage of net debt to total assets	11.7	1.5	1.2	12.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Hydro Municipalities as at December 31, 1949

Elora 1,357	Embro 485	Erieau 341	Erie Beach 50	Essex 2,253	Etobicoke Twp. V.A.	Exeter 2,364
\$ c. 2,097.31	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
20,989.05	11,979.76	21,396.72	4,008.05	56,999.34	681,761.58	45,556.62
16,057.14	9,790.35	10,389.75	1,207.82	442.55	80,099.06	
9,232.69	3,314.46	5,252.76	1,368.34	26,365.83	333,093.88	26,653.79
1,568.76	535.73	794.23	306.37	17,425.34	221,752.72	17,322.40
				2,552.34	105,221.22	5,149.90
				7,205.06	2,689.44	
2,960.14	346.80	379.90		4,342.89	81,326.71	5,707.75
52,905.09	25,967.10	38,213.36	6,890.58	127,246.99	1,548,432.90	110,344.65
418.75	4,544.14	194.21		775.23	10,123.98	5,887.08
10,500.00	3,000.00	1,000.00	1,000.00		7,000.00	10,500.00
23.00	77.54	182.88	53.93	494.58	35,438.88	1,235.98
249.03				6,506.23	52,325.77	3,427.44
64,683.01	19,877.72	13,905.11	3,067.22	59,937.26	502,268.75	78,825.88
60.00		1,286.35			706.40	.50
					6,867.12	
128,838.88	53,466.50	54,781.91	11,011.73	194,960.29	2,163,163.80	210,221.53
				6,610.93	538,455.60	
471.00	1,527.15	725.11	170.19	104.24	140.00	1,365.59
642.31			205.51	3,321.79	33,423.24	
363.25	50.00	37.50	127.50	7,930.29	18,963.42	1,530.00
1,476.56	1,577.15	762.61	503.20	17,967.25	590,982.26	2,895.59
64,683.01	19,877.72	13,905.11	3,067.22	59,937.26	502,268.75	78,825.88
20,560.16	8,363.67	5,030.37	786.75	31,552.56	187,216.26	30,684.74
	9.58	37.41	18.90	438.65	1,151.33	60.16
85,243.17	28,250.97	18,972.89	3,872.87	91,928.47	690,636.34	109,570.78
13,000.00	7,500.00	6,883.13	3,300.00	15,889.07	277,239.80	20,000.05
29,119.15	16,138.38	28,163.28	3,335.66	69,175.50	*604,305.40	77,755.11
42,119.15	23,638.38	35,046.41	6,635.66	85,064.57	881,545.20	97,755.16
128,838.88	53,466.50	54,781.91	11,011.73	194,960.29	2,163,163.80	210,221.53
2.3	4.7	1.9	5.3	8.7	35.6	2.2

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Fergus	Finch	Flesherton	Fonthill	Forest
Population.....	3,195	390	447	1,182	1,709
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	2,442.52		408.78		6,576.61
Substation equipment.....	16,583.00				
Distribution system—overhead....	44,431.72	9,166.72	6,221.57	19,375.01	25,101.87
Distribution system—underground..					
Line transformers.....	31,490.42	4,512.42	5,669.67	10,878.35	19,552.75
Meters.....	21,120.93	3,394.50	3,438.00	9,586.99	13,839.34
Street light equipment, regular....	7,485.16	504.07	1,035.23	3,240.30	6,997.07
Street light equipment, ornamental					
Miscellaneous construction expense	2,666.29	110.74	100.38	1,224.03	2,046.40
Steam or hydraulic plant.....					
Old plant.....				3,500.00	
Total plant.....	126,220.04	17,688.45	16,873.63	47,804.68	74,114.04
Bank and cash balance.....	2,707.02	3,088.00	3,473.18	298.31	3,660.43
Securities and investments.....	12,000.00	3,500.00	9,000.00		33,510.00
Accounts receivable.....	701.02	901.63	315.90	316.31	807.07
Inventories.....	1,066.71				1,490.35
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	122,111.62	8,826.76	11,271.22	13,541.12	64,052.42
Other assets.....			19.30		29.46
Frequency standardization expenditure in suspense.....					23.85
Total assets.....	264,806.41	34,004.84	40,953.23	61,960.42	177,687.62
LIABILITIES					
Debenture balance.....					
Accounts payable.....	423.34	642.85	335.34	809.77	
Bank overdraft.....				168.07	
Other liabilities.....	1,010.94	210.95	69.00	234.30	107.01
Total liabilities.....	1,434.28	853.80	404.34	1,212.14	107.01
RESERVES					
For equity in H-E.P.C. systems....	122,111.62	8,826.76	11,271.22	13,541.12	64,052.42
For depreciation.....	31,568.78	4,025.71	5,656.73	7,173.43	29,545.25
Other reserves.....	198.59				85.89
Total reserves.....	153,878.99	12,852.47	16,927.95	20,714.55	93,683.56
SURPLUS					
Debentures paid.....	42,000.00	7,000.00	5,830.88	22,500.00	23,357.13
Local sinking fund.....					
Operating surplus.....	67,493.14	13,298.57	17,790.06	17,533.73	*60,539.92
Net frequency standardization expense charged this year.....					
Total surplus.....	109,493.14	20,298.57	23,620.94	40,033.73	83,897.05
Total liabilities, reserves and surplus.	264,806.41	34,004.84	40,953.23	61,960.42	177,687.62
Percentage of net debt to total assets.	1.0	3.4	1.3	2.5	0.1

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Hydro Municipalities as at December 31, 1949

Forest Hill	Frankford	Galt	Georgetown	Glencoe	Goderich
15,629	1,242	16,952	3,150	918	4,906
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
43,815.63		253,422.97	5,586.06	3,587.66	49,693.84
100,843.12		183,537.58	14,084.11		36,426.76
236,803.16	13,912.64	342,419.79	55,531.46	26,378.34	86,164.11
3,373.65		4,230.40			
137,115.83	4,070.69	178,973.71	43,955.21	12,446.64	43,163.73
84,925.82	5,784.41	123,928.60	28,782.08	6,507.31	34,545.96
14,258.46	2,488.14	87,541.38	5,713.54	6,286.02	10,562.83
25,994.14					
29,458.83		25,846.26	4,093.84	1,954.59	12,555.07
					14,622.15
676,588.64	26,255.88	1,199,900.69	157,746.30	57,160.56	287,734.45
74,643.29	6,278.90	583.93	11,334.09	3,799.21	18,693.63
179,000.00		100,000.00	5,133.15	15,100.00	2,000.00
3,873.42	380.35	6,586.35	214.87	446.52	10,352.98
13,235.67		74,983.94	13,372.58	598.83	2,320.40
385,878.69		1,009,655.08	195,654.49	36,374.77	221,028.71
		35,223.92	189.00	0.28	104.48
312.62		14,610.64			
1,333,532.33	32,915.13	2,441,544.55	383,644.48	113,480.17	542,234.65
148,850.48	20,000.00				7,404.81
27,285.99	1,567.66	4,613.50	287.13	455.72	7,505.55
		10,410.84			
40,543.22	150.00	8,230.98	3,756.55	403.16	4,176.50
216,679.69	21,717.66	23,255.32	4,043.68	858.88	19,086.86
385,878.69		1,009,655.08	195,654.49	36,374.77	221,028.71
196,689.87	8,603.92	501,265.26	42,776.39	18,340.98	115,635.52
750.00	866.66	26,204.54		351.64	819.63
583,318.56	9,470.58	1,537,124.88	238,430.88	55,067.39	337,483.86
213,931.12		518,001.95	20,000.00	20,112.88	88,683.24
*319,602.96	1,726.89	*363,162.40	121,169.92	37,441.02	96,980.69
533,534.08	1,726.89	881,164.35	141,169.92	57,553.90	185,663.93
1,333,532.33	32,915.13	2,441,544.55	383,644.48	113,480.17	542,234.65
20.7	65.9	1.6	2.2	0.8	5.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Grand Valley	Granton	Gravenhurst	Grimsby
Population.....	649	P.V.	3,431	2,457
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	36.50		15,684.91	
Substation equipment.....			10,936.03	
Distribution system—overhead.....	13,788.55	6,604.57	45,440.73	47,312.19
Distribution system—underground.....			1,941.77	
Line transformers.....	5,981.47	2,647.77	21,341.80	27,601.43
Meters.....	5,546.10	2,156.00	22,622.47	21,882.88
Street light equipment, regular.....	1,067.12	180.78	5,995.99	4,552.17
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	9.00	113.08	1,497.45	
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	26,428.74	11,702.20	125,461.15	101,348.67
Bank and cash balance.....	3,248.77		227.14	1,492.16
Securities and investments.....	11,000.00	3,700.00	15,000.00	36,000.00
Accounts receivable.....	261.77	44.52	2,140.28	110.38
Inventories.....			1,201.79	91.55
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	21,606.82	13,566.38	64,618.86	17,021.78
Other assets.....			5.00	
Frequency standardization expenditure in suspense.....				
Total assets.....	62,546.10	29,013.10	208,654.22	156,064.54
LIABILITIES				
Debenture balance.....				
Accounts payable.....	1,215.97	2,588.80	10.74	157.56
Bank overdraft.....		152.98		
Other liabilities.....		35.00	1,280.00	3,560.29
Total liabilities.....	1,215.97	2,776.78	1,290.74	3,717.85
RESERVES				
For equity in H-E.P.C. systems.....	21,606.82	13,566.38	64,618.86	17,021.78
For depreciation.....	13,514.03	2,266.34	31,877.21	17,181.50
Other reserves.....		60.00	472.91	
Total reserves.....	35,120.85	15,892.72	96,968.98	34,203.28
SURPLUS				
Debentures paid.....	10,794.30	3,500.00	44,278.97	85,344.00
Local sinking fund.....				
Operating surplus.....	15,414.98	6,843.60	66,115.53	32,799.41
Net frequency standardization expense charged this year.....				
Total surplus.....	26,209.28	10,343.60	110,394.50	118,143.41
Total liabilities, reserves and surplus.....	62,546.10	29,013.10	208,654.22	156,064.54
Percentage of net debt to total assets.....	3.0	17.9	0.9	1.3

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Hydro Municipalities as at December 31, 1949

Guelph	Hagersville	Hamilton	Hanover	Harriston	Harrow	Hastings
25,962	1,624	181,623	3,646	1,449	1,343	803
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
22,350.87		1,283,361.91	3,974.32	395.25	2,318.16	
198,776.44	864.37	3,026,912.68	9,271.19	600.00		
403,890.82	24,962.86	1,629,506.52	60,190.32	27,775.84	28,609.39	23,510.43
28,847.47		1,103,305.29				
189,921.85	19,074.27	1,333,695.84	36,999.89	15,284.55	17,076.86	5,810.11
155,183.55	13,594.54	1,073,869.05	25,651.79	11,030.05	12,366.94	6,443.84
15,885.71	1,311.22	367,795.75	5,269.63	1,355.93	1,218.24	1,399.21
7,827.86	904.84	61,954.65	5,917.61	2,499.87	52.13	669.85
		†250,823.00				1,733.13
1,058,684.57	60,712.10	10,131,224.69	147,274.75	58,941.49	61,641.72	39,566.57
60,847.02	5,535.72	411,471.90	16,618.06	3,908.89	6,021.83	2,484.84
	33,000.00	1,950,000.00	83,437.19	10,900.00	9,200.00	6,000.00
25,419.20	500.38	423,240.09	922.89	918.88	1,614.46	296.63
44,476.42	155.44	397,178.53	646.53	41.66	337.34	
1,185,576.84	132,219.83	10,476,227.12	144,826.38	61,608.87	51,427.51	8,439.92
80.00		126,346.25		44.00		
1,711.70		13,851.00				
2,376,795.75	232,123.47	23,929,539.58	393,725.80	136,363.79	130,242.86	56,787.96
100,000.00		76,000.00				3,244.48
49,071.05	7.55	967,928.48		521.17	1,396.67	3,486.43
8,890.15	634.43	37,924.49	1,342.40	112.21	450.00	535.47
157,961.20	641.98	1,081,852.97	1,342.40	633.38	1,846.67	7,266.38
1,185,576.84	132,219.83	10,476,227.12	144,826.38	61,608.87	51,427.51	8,439.92
314,920.26	24,159.26	2,505,406.81	82,371.28	16,986.86	19,861.49	9,199.27
777.26		1,482,148.07			130.17	
1,501,274.36	156,379.09	14,463,782.00	227,197.66	78,595.73	71,419.17	17,639.19
145,000.00	8,000.00	3,984,275.19	80,162.29	25,818.03	12,000.00	17,755.52
*572,560.19	67,102.40	*4,401,532.05	85,023.45	31,316.65	44,977.02	14,126.87
		1,902.63				
717,560.19	75,102.40	8,383,904.61	165,185.74	57,134.68	56,977.02	31,882.39
2,376,795.75	232,123.47	23,929,539.58	393,725.80	136,363.79	130,242.86	56,787.96
13.3	0.6	8.0	0.5	0.8	2.4	15.0

†Annexation not yet distributed.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Havelock	Hensall	Hespeler	Highgate	Holstein
Population	1,166	677	3,614	340	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings			17,571.77		
Substation equipment	572.90		62,110.62		
Distribution system—overhead	21,473.90	14,764.44	46,925.16	9,750.71	2,569.46
Distribution system—underground					
Line transformers	4,755.07	12,898.76	45,106.78	3,520.29	2,053.41
Meters	7,494.63	5,724.32	20,095.24	2,213.27	1,163.99
Street light equipment, regular	1,960.83	3,556.77	13,938.82	3,090.72	215.54
Street light equipment, ornamental					
Miscellaneous construction expense		752.70	5,283.38		64.35
Steam or hydraulic plant					
Old plant					
Total plant	36,257.33	37,696.99	211,031.77	18,574.99	6,066.75
Bank and cash balance	5,082.11	2,466.78			2,149.15
Securities and investments	16,500.00	10,000.00	10,000.00	6,000.00	4,500.00
Accounts receivable	329.59	181.41	16,503.16	75.93	22.50
Inventories			581.75		
Sinking fund on local debentures					
Equity in H-E.P.C. systems	21,557.28	30,270.83	223,132.23	16,447.95	4,655.93
Other assets			678.47		
Frequency standardization expenditure in suspense			2,305.00		
Total assets	79,726.31	80,616.01	464,232.38	41,098.87	17,394.33
LIABILITIES					
Debenture balance			1,910.54		
Accounts payable	1,214.63	202.19	835.58	2,115.33	500.00
Bank overdraft			10,241.13	551.23	
Other liabilities	80.00	20.00	1,725.00	75.00	50.00
Total liabilities	1,294.63	222.19	14,712.25	2,741.56	550.00
RESERVES					
For equity in H-E.P.C. systems	21,557.28	30,270.83	223,132.23	16,447.95	4,655.93
For depreciation	15,825.12	14,095.66	23,189.08	7,432.28	2,189.50
Other reserves			125.13		
Total reserves	37,382.40	44,366.49	246,446.44	23,880.23	6,845.43
SURPLUS					
Debentures paid	26,234.18	12,000.00	75,659.97	5,000.00	2,762.05
Local sinking fund					
Operating surplus	14,815.10	24,027.33	*127,413.72	9,477.08	7,236.85
Net frequency standardization expense charged this year					
Total surplus	41,049.28	36,027.33	203,073.69	14,477.08	9,998.90
Total liabilities, reserves and surplus	79,726.31	80,616.01	464,232.38	41,098.87	17,394.33
Percentage of net debt to total assets	2.2	0.4	6.1	11.1	4.3

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Hydro Municipalities as at December 31, 1949

Humberstone	Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville
3,411	3,180	6,234	1,029	588	1,465
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
26,809.12	353.52	16,650.86	281.20		4,719.34
	647.30	51,338.29	100.00		
35,787.75	32,961.66	73,873.63	11,516.15	12,330.31	26,435.89
22,019.91	30,270.66	57,677.22	4,394.13	6,889.02	14,487.78
16,679.06	23,083.99	42,655.85	6,102.44	3,924.79	12,318.94
1,715.26	9,919.39	6,005.71	2,637.65	977.33	1,173.70
		4,597.59			
4,141.25	1,254.60	10,206.62	454.23	175.68	574.10
			575.00		
107,152.35	98,491.12	263,005.77	26,060.80	24,297.13	59,709.75
1,134.28		2,696.04	1,584.43	6,183.21	25.00
	7,000.00		8,000.00	13,500.00	12,000.00
333.15	1,133.99	2,427.20		1,038.30	2,724.57
854.35	7,259.83	1,448.22	1,081.07		2,590.87
42,288.96	111,477.07	332,086.68	5,881.53	27,129.53	38,102.95
233.34	845.15	224.92			
		155.00			
151,996.43	226,207.16	602,043.83	42,607.83	72,148.17	115,153.14
3,503.81	156.46	16,488.77	468.73	3,234.86	654.20
	230.81				274.74
1,449.80	872.16	7,256.94	446.60		216.69
4,953.61	1,259.43	23,745.71	915.33	3,234.86	1,145.63
42,288.96	111,477.07	332,086.68	5,881.53	27,129.53	38,102.95
12,792.74	19,973.49	39,850.42	4,205.97	5,257.97	14,847.82
	123.42	311.22			
55,081.70	131,573.98	372,248.32	10,087.50	32,387.50	52,950.77
32,000.00	15,697.39	79,800.00		10,500.00	19,506.62
59,961.12	77,676.36	*126,249.80	31,605.00	26,025.81	41,550.12
91,961.12	93,373.75	206,049.80	31,605.00	36,525.81	61,056.74
151,996.43	226,207.16	602,043.83	42,607.83	72,148.17	115,153.14
4.5	1.1	7.0	2.5	7.2	1.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Kincardine	Kingston	Kingsville	Kirkfield
Population	2,857	31,375	2,489	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	6,740.17	329,882.41	8,730.87	
Substation equipment	7,512.39	340,528.54		
Distribution system—overhead	61,458.28	331,563.03	42,592.22	5,616.28
Distribution system—underground		337,055.47		
Line transformers	26,787.67	192,079.44	19,384.67	1,854.10
Meters	18,583.01	196,962.58	20,212.08	977.15
Street light equipment, regular	10,132.87	91,615.36	2,046.73	379.00
Street light equipment, ornamental			19,200.00	
Miscellaneous construction expense	987.14	22,937.45	804.93	
Steam or hydraulic plant		17,665.40		
Old plant				
Total plant	132,201.53	1,860,289.68	112,971.50	8,826.53
Bank and cash balance	10,285.71	53,530.10	1,709.49	2,141.15
Securities and investments	15,000.00	335,000.00	32,500.00	3,000.00
Accounts receivable	719.50	56,049.11	523.49	35.17
Inventories		45,215.85		
Sinking fund on local debentures				
Equity in H-E.P.C. systems	80,468.90	365,160.03	75,605.75	5,556.00
Other assets	316.94	3,420.54		
Frequency standardization expenditure in suspense				
Total assets	238,992.58	2,718,665.31	223,310.23	19,558.85
LIABILITIES				
Debenture balance			10,251.81	
Accounts payable	1,350.23	136,063.64	641.75	240.56
Bank overdraft				
Other liabilities	639.81	13,599.85	21,724.75	
Total liabilities	1,990.04	149,663.49	32,618.31	240.56
RESERVES				
For equity in H-E.P.C. systems	80,468.90	365,160.03	75,605.75	5,556.00
For depreciation	29,338.38	508,643.76	35,194.97	4,913.05
Other reserves	42.64	250,000.00	388.66	200.00
Total reserves	109,849.92	1,123,803.79	111,189.38	10,669.05
SURPLUS				
Debentures paid	60,000.00	274,339.08	23,248.19	5,765.89
Local sinking fund				
Operating surplus	67,152.62	1,170,858.95	56,254.35	2,883.35
Net frequency standardization expense charged this year				
Total surplus	127,152.62	1,445,198.03	79,502.54	8,649.24
Total liabilities, reserves and surplus	238,992.58	2,718,665.31	223,310.23	19,558.85
Percentage of net debt to total assets	1.3	6.3	1.0	1.7

“A”—Continued

Hydro Municipalities as at December 31, 1949

Kitchener	Lakefield	Lambeth	Lanark	Lancaster	La Salle	Leamington
40,640	1,667	P.V.	731	550	1,526	7,221
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
329,330.54	3,137.97				1,210.68	36,105.25
619,327.06						8,288.84
643,388.31	29,011.21	15,648.60	12,626.57	8,833.04	38,983.93	85,723.08
202,403.89						36,570.18
378,117.94	13,563.32	4,778.87	7,392.12	2,227.75	13,127.60	46,871.24
265,834.92	10,833.28	4,808.40	4,609.81	2,540.07	10,617.81	44,445.68
88,148.63	3,064.86	1,053.80	1,442.75	650.65	1,807.17	3,960.65
118,465.71						14,478.49
55,581.56	5,368.34	300.71		14.95	1,033.07	2,489.01
52,363.91	3,445.25					
2,752,962.47	68,424.23	26,590.38	26,071.25	14,266.46	66,780.26	278,932.42
175.00	6,604.69	521.35	5,846.74	3,670.21		100.00
98,606.45	25,000.00			1,500.00		7,000.00
115,837.87	306.72	869.10		564.67	961.07	2,383.97
	1,591.80				136.10	7,193.56
2,406,981.23	26,404.16	17,498.79	11,852.80	10,309.02	27,529.48	174,505.10
1,660.64					6.49	0.29
5,376,223.66	128,331.60	45,479.62	43,770.79	30,310.36	95,413.40	470,115.34
25,600.00	2,408.79					
116,269.90	222.00	5,249.35	127.49	360.94	15,586.74	585.64
92,168.78					359.94	4,564.89
130,341.52	534.53	145.00	130.00	142.86	971.74	18,216.73
364,380.20	3,165.32	5,394.35	257.49	503.80	16,918.42	23,367.26
2,406,981.23	26,404.16	17,498.79	11,852.80	10,309.02	27,529.48	174,505.10
568,092.29	20,851.74	7,374.22	2,572.44	5,037.95	14,326.29	60,980.08
6,402.69		16.85			164.06	53.86
2,981,476.21	47,255.90	24,889.86	14,425.24	15,346.97	42,019.83	235,539.04
711,550.00	31,091.21	4,000.00	7,316.57	8,916.82	15,500.00	48,000.00
1,318,817.25	46,819.17	11,195.41	21,771.49	5,542.77	20,975.15	163,209.04
2,030,367.25	77,910.38	15,195.41	29,088.06	14,459.59	36,475.15	211,209.04
5,376,223.66	128,331.60	45,479.62	43,770.79	30,310.36	95,413.40	470,115.34
12.3	3.1	19.3	0.8	2.5	24.9	3.2

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Lindsay	Listowel	London	London Twp.	Long Branch
Population	8,904	2,929	91,021	10,179	6,677
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	20,600.15	1,459.49	522,294.65		
Substation equipment	3,176.56		1,352,680.72		
Distribution system—overhead	145,037.25	65,851.06	953,464.41	31,482.73	84,140.12
Distribution system—underground	22,438.41	7,030.38	748,692.59		
Line transformers	64,930.00	36,861.97	680,009.16	14,191.04	43,524.09
Meters	61,798.28	25,391.01	489,129.02	10,314.55	38,366.78
Street light equipment, regular	15,252.68	5,325.16	101,144.90	1,999.16	18,469.91
Street light equipment, ornamental		1,539.79	92,286.12		
Miscellaneous construction expense	6,199.86	2,992.97	295,731.02	914.36	37.15
Steam or hydraulic plant					
Old plant					
Total plant	339,433.19	146,451.83	5,235,432.59	58,901.84	184,538.05
Bank and cash balance	7,715.77	5,560.05	9,168.91	3,298.65	1,542.07
Securities and investments	15,000.00	5,000.00	806,500.00	6,000.00	55,000.00
Accounts receivable	1,272.21	596.56	166,767.79	333.23	13,790.30
Inventories	12,334.44	618.55	273,927.83		
Sinking fund on local debentures					
Equity in H-E.P.C. systems	208,305.39	146,930.30	4,307,003.79	41,915.43	67,940.17
Other assets		195.58	188,775.40		
Frequency standardization expenditure in suspense			17,156.37		
Total assets	584,061.00	305,352.87	11,004,732.68	110,449.15	322,810.59
LIABILITIES					
Debenture balance					
Accounts payable		1,670.92	98,485.81	1,375.45	4,390.39
Bank overdraft			201,161.59		
Other liabilities	6,463.67	2,604.32	108,365.18	429.00	3,542.07
Total liabilities	6,463.67	4,275.24	408,012.58	1,804.45	7,932.46
RESERVES					
For equity in H-E.P.C. systems	208,305.39	146,930.30	4,307,003.79	41,915.43	67,940.17
For depreciation	66,640.98	67,173.39	2,053,504.28	17,879.27	33,038.27
Other reserves			203,328.69	3.82	94.24
Total reserves	274,946.37	214,103.69	6,563,836.76	59,798.52	101,072.68
SURPLUS					
Debentures paid	129,313.04	43,189.89	1,727,524.06	19,000.00	40,304.60
Local sinking fund					
Operating surplus	173,337.92	43,784.05	2,305,359.28	29,846.18	173,500.85
Net frequency standardization expense charged this year					
Total surplus	302,650.96	86,973.94	4,032,883.34	48,846.18	213,805.45
Total liabilities, reserves and surplus	584,061.00	305,352.87	11,004,732.68	110,449.15	322,810.59
Percentage of net debt to total assets	1.7	1.7	4.8	2.6	3.1

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Hydro Municipalities as at December 31, 1949

Lucan	Lucknow	Lynden	Madoc	Markdale	Markham	Marmora
850	963	P.V.	1,169	839	1,389	1,005
\$ c. 375.45	\$ c.	\$ c. 241.18	\$ c. 100.00	\$ c.	\$ c.	\$ c.
16,185.34	22,067.14	6,974.37	24,820.35	780.80 16,116.12	26,399.35	15,452.13
8,120.18	15,732.98	5,068.68	8,433.47	10,342.37	18,309.41	6,037.36
5,962.05	7,780.37	3,216.10	8,054.38	7,444.35	10,795.96	5,148.76
5,034.81	3,492.45	636.01	1,577.14	4,205.81	1,160.91	1,294.35
2,140.40	1,057.87		203.63		1,624.62	305.83
37,818.23	50,130.81	16,136.34	43,188.97	38,889.45	58,290.25	28,238.43
1,821.96	1,760.91	670.43	3,200.19	1,140.90	5,629.12	2,925.02
5,500.00	22,000.00	4,000.00	3,000.00	1,255.13	16,000.00	8,000.00
330.91	525.79	70.90	655.10	149.97	296.06	142.13
			2,879.75		3,413.53	1,318.39
31,186.35	38,682.70	21,526.92	16,559.47	18,887.12	36,467.77	11,319.82
76,657.45	113,100.21	42,404.59	69,483.48	60,322.57	120,096.73	51,943.79
2,548.05	310.49	1,629.17	6,556.46	1,856.87		71.35
664.00		23.32	467.84	362.00	160.00	220.00
3,212.05	310.49	1,652.49	7,024.30	2,218.87	160.00	291.35
31,186.35	38,682.70	21,526.92	16,559.47	18,887.12	36,467.77	11,319.82
10,714.20	3,656.27	4,836.90	1,039.56	3,454.47	11,705.96	7,388.96
41,900.55	42,838.97	26,363.82	17,599.03	22,341.59	48,173.73	18,708.78
11,213.62	17,614.08	4,495.00	14,000.00	6,370.29	11,373.63	15,091.58
20,331.23	52,336.67	9,893.28	30,860.15	29,391.82	60,389.37	17,852.08
31,544.85	69,950.75	14,388.28	44,860.15	35,762.11	71,763.00	32,943.66
76,657.45	113,100.21	42,404.59	69,483.48	60,322.57	120,096.73	51,943.79
7.1	0.4	7.9	13.3	5.5	0.2	0.7

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Martin- town P.V.	Maxville	Meaford	Merlin	Merritton
Population		812	2,923	P.V.	3,868
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	126.15		1,144.18	17,768.93	32,488.69
Substation equipment		407.79	4,093.47		84,995.94
Distribution system—overhead	2,932.57	12,494.94	44,877.90	11,425.27	66,047.84
Distribution system—underground					
Line transformers	1,593.81	3,726.44	19,415.22	4,364.88	30,139.08
Meters	1,451.14	3,889.99	20,962.56	4,038.87	25,397.81
Street light equipment, regular	585.67	2,160.10	4,436.10	1,051.48	7,880.11
Street light equipment, ornamental					
Miscellaneous construction expense	36.94	20.89	1,804.54	267.20	2,277.86
Steam or hydraulic plant					
Old plant					
Total plant	6,726.28	22,700.15	96,733.97	38,916.63	249,227.33
Bank and cash balance	2,380.27	7,443.51	8,947.76	367.63	35,474.21
Securities and investments	2,500.00	4,000.00	35,000.00		72,000.00
Accounts receivable	334.96	337.36	429.41	862.32	544.12
Inventories			256.69	486.76	2,289.35
Sinking fund on local debentures					
Equity in H-E.P.C. systems	3,913.35	16,748.06	60,614.51	19,305.82	394,700.76
Other assets			1,193.69		1.00
Frequency standardization expenditure in suspense					
Total assets	15,854.85	51,229.08	203,176.03	59,939.16	754,236.77
LIABILITIES					
Debenture balance					
Accounts payable	235.09	1,110.31	1,078.01	1,869.73	3,784.01
Bank overdraft					
Other liabilities	5.00	144.89	1,289.08	105.00	1,296.59
Total liabilities	240.09	1,255.20	2,367.09	1,974.73	5,080.60
RESERVES					
For equity in H-E.P.C. systems	3,913.35	16,748.06	60,614.51	19,305.82	394,700.76
For depreciation	1,988.33	7,777.76	23,307.27	7,636.00	54,399.14
Other reserves	81.02	327.62	35.59	23.40	
Total reserves	5,982.70	24,853.44	83,957.37	26,965.22	449,099.90
SURPLUS					
Debentures paid	5,346.73	13,642.40	47,724.76	13,122.36	32,186.21
Local sinking fund					
Operating surplus	4,285.33	11,478.04	69,126.81	17,876.85	267,870.06
Net frequency standardization expense charged this year					
Total surplus	9,632.06	25,120.44	116,851.57	30,999.21	300,056.27
Total liabilities, reserves and surplus	15,854.85	51,229.08	203,176.03	59,939.16	754,236.77
Percentage of net debt to total assets	2.0	3.6	1.7	4.9	1.4

“A”—Continued

Hydro Municipalities as at December 31, 1949

Midland	Mildmay	Millbrook	Milton	Milverton	Mimico	Mitchell
7,078	804	771	2,316	1,060	10,164	1,799
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
20,284.73			16,954.68	761.88	103,202.55	20,885.50
89,506.42			61,304.20		65,998.08	18,105.99
108,990.00	9,609.90	9,861.36	36,929.22	15,844.15	103,213.47	36,124.36
42,510.77	12,897.10	4,508.30	22,490.48	14,332.65	58,661.84	22,896.16
55,185.79	4,564.56	3,366.43	21,464.17	7,915.88	46,651.73	18,879.50
21,601.95	651.29	1,740.29	6,646.59	910.47	13,429.16	7,670.42
11,486.04	962.25		4,332.07	1,134.03	5,619.74	5,503.98
	849.00					1,380.00
349,565.70	29,534.10	19,476.38	170,121.41	40,899.06	396,776.57	131,445.91
	810.52	7,033.99	242.97	0.55	882.36	1,099.84
166,000.00	3,500.00	4,000.00		4,000.00		21,000.00
17,944.62	87.35	59.19	1,015.42	360.20	1,715.68	6,743.13
21,132.35			6,586.27		1,754.16	8,991.16
390,038.52	8,447.00	3,599.09	174,661.63	70,726.94	255,688.05	80,532.80
6,813.27			2.57		814.09	143.85
951,494.46	42,378.97	34,168.65	352,630.27	115,986.75	657,630.91	249,956.69
	2,989.06					
749.00		906.20	216.39	300.62	10,115.97	538.40
1,304.23				2,168.78	502.57	
1,707.47	523.43	149.04	607.13		5,711.00	258.00
3,760.70	3,512.49	1,055.24	823.52	2,469.40	16,329.54	796.40
390,038.52	8,447.00	3,599.09	174,661.63	70,726.94	255,688.05	80,532.80
254,778.54	1,442.15	1,550.71	40,188.66	8,809.32	110,289.08	49,194.25
1,298.25			146.00		542.87	1,288.52
646,115.31	9,889.15	5,149.80	214,996.29	79,536.26	366,520.00	130,955.57
111,944.99	9,314.44	9,000.00	33,046.41	9,500.00	127,000.00	22,295.22
189,673.46	19,662.89	18,963.61	103,764.05	24,481.09	147,781.37	95,909.50
301,618.45	28,977.33	27,963.61	136,810.46	33,981.09	274,781.37	118,204.72
951,494.46	42,378.97	34,168.65	352,630.27	115,986.75	657,630.91	249,956.69
0.7	10.3	3.4	0.5	5.5	4.1	0.6

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Moore- field P.V.	Morris- burg 1,825	Mount Brydges P.V.	Mount Forest 1,928	Napanee 3,554
Population					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings		5,682.38		3,726.00	24,141.33
Substation equipment		4,499.48		686.75	2,358.27
Distribution system—overhead	4,629.94	16,908.05	10,799.32	25,682.00	63,401.24
Distribution system—underground ..					
Line transformers	3,003.69	10,617.72	2,505.18	13,714.18	24,233.71
Meters	2,108.85	11,017.13	3,718.99	13,330.88	27,323.28
Street light equipment, regular	295.88	7,059.38	1,501.20	2,521.80	6,237.88
Street light equipment, ornamental ..					
Miscellaneous construction expense	78.79	675.00	105.90	208.16	9,314.54
Steam or hydraulic plant					
Old plant					
Total plant	10,117.15	56,459.14	18,630.59	59,869.77	157,010.25
Bank and cash balance	3,285.61	6,304.01	4,012.27	15,044.84	
Securities and investments	500.00	8,000.00	13,000.00	9,000.00	12,800.00
Accounts receivable	56.97	4,142.75	1,014.45	969.23	38,067.86
Inventories		254.26			8,128.85
Sinking fund on local debentures ..					
Equity in H-E.P.C. systems	11,064.30	8,913.62	13,488.41	61,513.25	85,071.79
Other assets				111.58	1,873.46
Frequency standardization expendi- ture in suspense					
Total assets	25,024.03	84,073.78	50,145.72	146,508.67	302,952.21
LIABILITIES					
Debenture balance					
Accounts payable	235.83	652.60	1,343.73	600.46	368.37
Bank overdraft					26,269.39
Other liabilities	5.22	2,225.33	140.10	165.00	1,755.23
Total liabilities	241.05	2,877.93	1,483.83	765.46	28,392.99
RESERVES					
For equity in H-E.P.C. systems ...	11,064.30	8,913.62	13,488.41	61,513.25	85,071.79
For depreciation	3,622.65	4,162.21	7,062.83	25,291.88	24,969.64
Other reserves			97.38		
Total reserves	14,686.95	13,075.83	20,648.62	86,805.13	110,041.43
SURPLUS					
Debentures paid	4,500.00	31,636.00	4,220.00	25,351.63	70,000.00
Local sinking fund					
Operating surplus	5,596.03	36,484.02	23,793.27	33,586.45	94,517.79
Net frequency standardization ex- pense charged this year					
Total surplus	10,096.03	68,120.02	28,013.27	58,938.08	164,517.79
Total liabilities, reserves and surplus.	25,024.03	84,073.78	50,145.72	146,508.67	302,952.21
Percentage of net debt to total assets.	1.7	3.8	4.0	0.9	13.1

“A”—Continued

Hydro Municipalities as at December 31, 1949

Neustadt 444	Newboro 332	Newburg 500	Newbury 292	Newcastle 782	New Hamburg 1,602
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11,747.70	11,113.68	15,643.41	7,816.80	107.37 17,236.99	4,203.21 1,319.80 25,760.88
6,532.89	3,031.04	4,544.68	2,966.14	8,752.44	19,321.35
3,304.87	2,365.61	3,147.34	2,009.92	5,580.85	13,496.38
934.04	1,003.39	848.32	894.16	2,076.56	2,274.20
246.10	1,350.77	127.16		738.30	2,554.84
22,765.60	18,864.49	24,310.91	13,687.02	34,492.51	68,930.66
4,507.29	1,297.32	1,157.33	1,296.88	3,411.58	50.00
12,700.00			6,500.00	9,000.00	11,000.00
149.17	28.42	51.58	553.36	208.64	728.95 917.13
10,271.09			7,504.38	7,063.96	84,912.09 35.28
50,393.15	20,190.23	25,519.82	29,541.64	54,176.69	166,574.11
323.05	17,000.00 41.06	10,000.00 4,353.35	224.90		116.10 426.95 156.34
213.85	92.00	5.00	57.84		699.39
536.90	17,133.06	14,358.35	282.74		
10,271.09			7,504.38	7,063.96	84,912.09
11,486.36	351.00	10,808.61	7,180.66	12,498.93	19,937.86
	1,142.67	525.00			33.83
21,757.45	1,493.67	11,333.61	14,685.04	19,562.89	104,883.78
15,504.12			9,754.39	14,000.00	17,729.08
12,594.68	1,563.50	†172.14	4,819.47	20,613.80	43,261.86
28,098.80	1,563.50	†172.14	14,573.86	34,613.80	60,990.94
50,393.15	20,190.23	25,519.82	29,541.64	54,176.69	166,574.11
1.3	84.9	56.3	1.3	0.0	0.9

† Deficit.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Newmarket	New Toronto	Niagara	Niagara Falls
Population.....	4,521	9,156	1,727	21,674
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	4,000.00	63,962.39	4,457.03	132,871.35
Substation equipment.....	5,000.00		24,212.17	295,505.18
Distribution system—overhead.....	72,248.56	116,849.34	49,720.47	274,569.05
Distribution system—underground.....		17,198.72		16,452.02
Line transformers.....	47,164.52	81,424.51	28,322.30	233,705.25
Meters.....	33,887.83	54,066.86	18,843.80	152,658.48
Street light equipment, regular.....	10,061.79	15,155.55	4,964.24	141,729.18
Street light equipment, ornamental.....				
Miscellaneous construction expense..	6,932.55	11,715.37	4,170.09	55,729.57
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	179,295.25	360,372.74	134,690.10	1,303,220.08
Bank and cash balance.....	25.00	3,175.02	2,021.22	14,590.54
Securities and investments.....		130,000.00	5,000.00	185,000.00
Accounts receivable.....	1,141.25	3,467.67	5,041.12	1,410.47
Inventories.....	174.82	9,119.63	8,357.81	35,697.40
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	19,311.70	872,094.06	59,752.15	966,234.47
Other assets.....				1,320.43
Frequency standardization expenditure in suspense.....				
Total assets.....	199,948.02	1,378,229.12	214,862.40	2,507,473.39
LIABILITIES				
Debenture balance.....	1,000.00		6,000.00	5,731.61
Accounts payable.....	3,918.31		2,700.81	14,910.40
Bank overdraft.....	4,589.40			
Other liabilities.....	1,180.00	6,774.34	759.65	24,447.07
Total liabilities.....	10,687.71	6,774.34	9,460.46	45,089.08
RESERVES				
For equity in H-E.P.C. systems.....	19,311.70	872,094.06	59,752.15	966,234.47
For depreciation.....	45,893.43	103,319.97	30,011.03	404,925.58
Other reserves.....		340.73	591.60	1,380.86
Total reserves.....	65,205.13	975,754.76	90,354.78	1,372,540.91
SURPLUS				
Debentures paid.....	4,000.00	8,000.00	42,501.42	684,511.39
Local sinking fund.....				
Operating surplus.....	120,055.18	387,700.02	72,545.74	405,332.01
Net frequency standardization expense charged this year.....				
Total surplus.....	124,055.18	395,700.02	115,047.16	1,089,843.40
Total liabilities, reserves and surplus...	199,948.02	1,378,229.12	214,862.40	2,507,473.39
Percentage of net debt to total assets...	5.9	1.3	6.1	2.9

“A”—Continued

Hydro Municipalities as at December 31, 1949

North York Twp. V.A.	Norwich 1,369	Norwood 873	Oakville 5,346	Oil Springs 426	Omemees 611	Orangeville 3,073
\$ c. 96,371.10 126,243.23 1,069,816.48	\$ c. 4,660.42 12,205.73	\$ c. 457.53 25,891.89	\$ c. 750.00 5,000.00 91,763.29	\$ c. 6,457.31 2,461.78 16,472.13	\$ c. 200.00 20,979.06	\$ c. 2,585.07 44,347.11
527,838.22 304,229.63 156.00 72,415.50 54,600.18	11,442.50 11,043.55 4,745.69 1,844.24	6,759.86 8,288.94 2,085.69 3,582.30	50,092.99 50,398.96 9,309.52 4,739.32	9,724.51 5,037.12 308.24 1,643.92	9,100.24 4,521.86 2,283.55 269.73	21,775.36 19,352.10 19,871.30 1,043.93
		2,447.51				
2,251,670.34 17,854.67 10,000.00 35,875.53 78,660.72	45,942.13 2,110.82 12,300.00 2,072.42 4,105.86	49,513.72 13,070.48 20,500.00 418.36 11,933.26	212,054.08 5,959.70 17,588.47 10,702.00 66.64	42,105.01 7,104.96 8,500.00 31.61 39,938.29	37,354.44 1,039.56 8,000.00 14.20 5,410.21	108,974.87 9,747.42 25,800.00 1,970.19 83,265.45 247.81
435,451.71 1,940.00 260.75	62,303.29 82.00					
2,831,713.72	128,916.52	95,435.82	246,370.89	98,066.96	51,818.41	230,005.74
773,999.24 173,980.26 114,834.45		2,278.56 1,810.11 433.87	12,986.46 3,235.00	314.23 30.00	35.70 185.00	1,203.22 963.00
1,062,813.95	444.50	4,522.54	16,221.46	344.23	220.70	2,166.22
435,451.71 344,115.23 800.79	62,303.29 12,150.97 479.69	11,933.26 20,089.22	128,009.15 900.00	39,938.29 16,297.95 80.29	5,410.21 14,616.47	83,265.45 34,461.33
780,367.73	74,933.95	32,022.48	128,909.15	56,316.53	20,026.68	117,726.78
529,022.63 *459,509.41	13,756.00 39,782.07	34,821.44 24,069.36	101,240.28	16,721.31 24,684.89	10,595.00 20,976.03	25,594.32 84,518.42
988,532.04	53,538.07	58,890.80	101,240.28	41,406.20	31,571.03	110,112.74
2,831,713.72	128,916.52	95,435.82	246,370.89	98,066.96	51,818.41	230,005.74
42.7	0.7	5.4	6.6	0.6	0.5	1.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Orono	Oshawa	Ottawa	Otterville	Owen Sound
Population	P.V.	28,037	161,455	P.V.	16,503
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings		125,306.12	606,394.99	600.00	35,684.76
Substation equipment		99,978.93	1,710,111.73		37,477.75
Distribution system—overhead	9,415.18	398,077.37	1,070,321.40	10,941.10	200,263.93
Distribution system—underground		180,468.64	370,140.41		343.65
Line transformers	6,465.11	167,541.49	497,400.53	8,314.87	92,958.38
Meters	3,505.89	176,638.62	369,918.61	4,420.66	98,805.79
Street light equipment, regular	1,365.53	98,806.53	185,134.78	1,903.49	42,927.33
Street light equipment, ornamental					
Miscellaneous construction expense	552.80	48,604.99	41,225.08	628.91	14,876.25
Steam or hydraulic plant					
Old plant					
Total plant	21,304.51	1,295,422.69	4,850,647.53	26,809.03	523,337.84
Bank and cash balance	1,436.25	28,861.54	277,821.20	1,636.67	
Securities and investments	8,000.00	285,000.00	1,140,000.00	6,500.00	7,500.00
Accounts receivable	117.31	129,994.83	103,420.68	213.78	1,322.48
Inventories		92,727.39	125,205.35	468.00	39,711.65
Sinking fund on local debentures			246,700.77		
Equity in H-E.P.C. systems	3,432.70	1,088,383.44	576,954.03	15,659.50	426,883.51
Other assets		990.37	1,512.55		51,794.02
Frequency standardization expenditure in suspense					
Total assets	34,290.77	2,921,380.26	7,322,262.11	51,286.98	1,050,549.50
LIABILITIES					
Debenture balance			51,977.06		
Accounts payable		84,906.33	165,363.45	901.21	55,749.54
Bank overdraft					11,103.08
Other liabilities		31,719.93		86.38	12,011.49
Total liabilities		116,626.26	217,340.51	987.59	78,864.11
RESERVES					
For equity in H-E.P.C. systems	3,432.70	1,088,383.44	576,954.03	15,659.50	426,883.51
For depreciation	1,570.76	153,472.42	2,407,265.99	10,133.71	119,998.63
Other reserves		75,928.78	780,458.25		2,034.71
Total reserves	5,003.46	1,317,784.64	3,764,678.27	25,793.21	548,916.85
SURPLUS					
Debentures paid	8,000.00	302,622.40	928,022.94	4,500.00	107,718.00
Local sinking fund			246,700.77		
Operating surplus	21,287.31	1,184,346.96	2,165,519.62	20,006.18	315,050.54
Net frequency standardization expense charged this year					
Total surplus	29,287.31	1,486,969.36	3,340,243.33	24,506.18	422,768.54
Total liabilities, reserves and surplus	34,290.77	2,921,380.26	7,322,262.11	51,286.98	1,050,549.50
Percentage of net debt to total assets	0.0	6.4	2.5	2.8	12.6

“A”—Continued

Hydro Municipalities as at December 31, 1949

Paisley	Palmerston	Paris	Parkhill	Parry Sound	Penetan- guishene	Perth
725	1,499	4,980	1,003	4,627	4,498	4,666
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,923.46	1,346.28	13,570.15			2,288.05	5,109.34
16,609.13	37,597.78	51,372.58		22,043.00	7,161.13	17,288.93
		72,170.72	25,265.52	39,828.37	62,884.12	62,055.06
7,843.27	17,388.95	45,851.46	13,919.63	20,551.75	30,931.65	44,475.05
5,486.69	12,239.40	27,229.51	7,463.68	34,013.52	25,123.00	31,412.60
1,155.73	9,802.96	20,559.65	8,921.76	18,118.16	12,126.91	14,688.93
107.15	3,077.04	5,134.98	2,348.14	4,856.28	2,532.33	11,692.52
				359,132.62		
33,125.43	81,452.41	235,889.05	57,918.73	498,543.70	143,047.19	186,722.43
3,758.63	8,817.90	25.00	968.12	1,286.20	12,342.48	100.00
4,500.00	15,600.00	32,500.00		20,000.00	40,000.00	92,500.00
257.70	405.25	497.55	387.80	3,202.66	1,720.65	6,724.91
	5,039.70			370.00	358.73	24,219.92
19,720.11	76,538.42	197,747.75	34,386.85	738.43	112,305.70	130,899.97
		215.03		29,310.73	200.00	
61,361.87	187,853.68	466,874.38	93,661.50	553,451.72	309,974.75	441,167.23
				9,995.06		7,911.73
	33.03	223.33	5,791.70	7,649.91		482.35
		3,556.66				4,476.00
57.42	366.86		126.32	7,456.02	1,110.00	3,566.29
57.42	399.89	3,779.99	5,918.02	25,100.99	1,110.00	16,436.37
19,720.11	76,538.42	197,747.75	34,386.85	738.43	112,305.70	130,899.97
8,640.21	25,285.56	88,587.82	10,476.88	109,951.75	59,593.38	74,634.43
	319.84	86.98		68.66	888.55	5,687.46
28,360.32	102,143.82	286,422.55	44,863.73	110,758.84	172,787.63	211,221.86
13,623.35	27,000.00	92,000.00	14,630.02	378,504.94	36,982.95	77,133.57
19,320.78	58,309.97	84,671.84	28,249.73	39,086.95	99,094.17	136,375.43
32,944.13	85,309.97	176,671.84	42,879.75	417,591.89	136,077.12	213,509.00
61,361.87	187,853.68	466,874.38	93,661.50	553,451.72	309,974.75	441,167.23
0.1	0.4	1.4	10.0	4.5	0.6	5.3

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Peter- borough 34,948	Petrolia 3,027	Picton 3,915	Plattsville P.V.	Point Edward 1,670
Population					
ASSETS	\$	\$	\$	\$	\$
Lands and buildings	c. 169,731.46	c. 38,213.70	c. 11,633.19	c.	c.
Substation equipment	279,839.38	5,971.75	49,967.91		
Distribution system—overhead	604,026.77	64,417.65	55,721.74	7,508.47	38,029.98
Distribution system—underground					
Line transformers	286,956.09	43,619.62	29,391.72	5,883.77	12,345.01
Meters	215,117.69	21,538.95	31,055.68	3,280.25	9,445.30
Street light equipment, regular	106,957.54	7,190.28	11,081.37	171.79	5,276.70
Street light equipment, ornamental					
Miscellaneous construction expense	26,195.54	9,056.01	2,538.64	8.91	3,894.44
Steam or hydraulic plant					
Old plant					
Total plant	1,688,824.47	190,007.96	191,390.25	16,853.19	68,991.43
Bank and cash balance	5,016.80	2,115.08	6,966.62	1,138.24	2,251.54
Securities and investments	15,000.00	15,000.00	3,500.00	7,500.00	21,000.00
Accounts receivable	68,084.35	3,744.17	1,749.33	505.82	4,211.73
Inventories	46,470.65	10,837.11	9,548.74		3,222.61
Sinking fund on local debentures					
Equity in H-E.P.C. systems	686,961.27	172,427.62	105,183.37	17,239.60	123,397.24
Other assets	1,360.83	346.00		30.00	
Frequency standardization expenditure in suspense					123.64
Total assets	2,511,718.37	394,477.94	318,338.31	43,266.85	223,198.19
LIABILITIES					
Debenture balance	12,000.00				
Accounts payable	63,265.95	118.62	1,713.97	1,338.41	3,382.53
Bank overdraft					
Other liabilities	646.06	1,307.56	5,072.65		428.54
Total liabilities	75,912.01	1,426.18	6,786.62	1,338.41	3,811.07
RESERVES					
For equity in H-E.P.C. systems	686,961.27	172,427.62	105,183.37	17,239.60	123,397.24
For depreciation	380,349.90	58,732.48	37,900.87	4,379.23	20,955.06
Other reserves	1,234.04	116.98	968.91		60.14
Total reserves	1,068,545.21	231,277.08	144,053.15	21,618.83	144,412.44
SURPLUS					
Debentures paid	488,610.67	50,000.00	3,182.32	5,237.00	17,000.00
Local sinking fund					
Operating surplus	878,650.48	111,774.68	164,316.22	15,072.61	*57,974.68
Net frequency standardization expense charged this year					
Total surplus	1,367,261.15	161,774.68	167,498.54	20,309.61	74,974.68
Total liabilities, reserves and surplus	2,511,718.37	394,477.94	318,338.31	43,266.85	223,198.19
Percentage of net debt to total assets	4.2	0.6	3.2	5.1	3.8

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Hydro Municipalities as at December 31, 1949

Port Colborne	Port Credit	Port Dalhousie	Port Dover	Port Elgin	Port Hope
7,613	2,696	2,348	2,201	2,486	5,724
\$ c. 30,326. 10	\$ c. 675. 00	\$ c. 6,000. 00	\$ c. 248. 75	\$ c. 111. 25	\$ c. 16,780. 29
98,393. 40	66,079. 92	41,007. 85	52,566. 25	33,807. 66	23,655. 31
44,767. 20	31,525. 31	26,133. 25	28,838. 99	16,947. 98	48,065. 82
36,639. 75	22,443. 19	17,924. 05	19,622. 86	13,761. 28	49,269. 09
6,412. 44	5,947. 78	2,436. 68	3,851. 55	3,347. 92	6,675. 42
16,611. 59					
12,734. 96	4,766. 03	2,653. 64	1,580. 73	3,257. 68	8,443. 14
9,929. 60				4,213. 00	
255,815. 04	131,437. 23	96,155. 47	106,709. 13	75,446. 77	239,584. 18
4,522. 15	514. 03	5,628. 44	2,428. 23	5,191. 45	9,691. 48
105,000. 00	1,000. 00			4,500. 00	5,000. 00
137. 33	1,542. 02	1,089. 01	3,362. 91	256. 45	489. 95
3,170. 34	84. 08	1,134. 30	74. 28		9,591. 94
179,299. 12	77,432. 92	70,632. 72	49,991. 38	30,254. 80	131,027. 61
136. 90		1,127. 39	38. 29		
548,080. 88	212,010. 28	175,767. 33	162,604. 22	115,649. 47	395,385. 16
1,910. 71	9,137. 69	17,000. 00		3,209. 23	
1,284. 69	7,592. 88	365. 04	549. 36	6,351. 17	811. 48
	489. 07				
20,919. 15	1,311. 44	1,590. 67	1,042. 25		11,897. 04
24,114. 55	18,531. 08	18,955. 71	1,591. 61	9,560. 40	12,708. 52
179,299. 12	77,432. 92	70,632. 72	49,991. 38	30,254. 80	131,027. 61
57,702. 29	29,302. 85	10,652. 48	28,960. 90	12,402. 58	51,207. 56
229. 88	190. 59	214. 16			
237,231. 29	106,926. 36	81,499. 36	78,952. 28	42,657. 38	182,235. 17
144,089. 29	15,362. 31	16,481. 62	29,000. 00	38,790. 77	78,630. 64
142,645. 75	71,190. 53	58,830. 64	53,060. 33	24,640. 92	121,810. 83
286,735. 04	86,552. 84	75,312. 26	82,060. 33	63,431. 69	200,441. 47
548,080. 88	212,010. 28	175,767. 33	162,604. 22	115,649. 47	395,385. 16
2. 1	13. 8	18. 0	1. 4	11. 2	4. 8

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Port McNicol 890	Port Perry 1,435	Port Rowan 718	Port Stanley 996	Prescott 3,413
Population.....					
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	369.08			1,574.60	2,761.54
Substation equipment.....		2,564.65			
Distribution system—overhead....	17,530.20	28,322.82	15,038.32	41,614.87	52,374.98
Distribution system—underground.					
Line transformers.....	3,771.00	9,741.13	6,182.54	25,786.54	31,273.34
Meters.....	4,712.52	8,429.88	4,330.50	19,409.16	24,702.11
Street light equipment, regular....	709.46	1,942.03	1,183.63	2,738.15	7,976.03
Street light equipment, ornamental					
Miscellaneous construction expense	169.32	224.86	125.14	745.04	5,171.41
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	27,261.58	51,225.37	26,860.13	91,868.36	124,259.41
Bank and cash balance.....			3,402.23	227.74	17,323.48
Securities and investments.....	1,000.00	16,000.00		13,000.00	10,000.00
Accounts receivable.....	396.83	582.62	256.16	1,186.46	1,085.25
Inventories.....	190.00				
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	11,161.13	33,398.57	12,874.86	73,890.78	94,294.04
Other assets.....		2,952.00		5.16	
Frequency standardization expendi- ture in suspense.....					
Total assets.....	40,009.54	104,158.56	43,393.38	180,178.50	246,962.18
LIABILITIES					
Debenture balance.....	2,800.00				
Accounts payable.....	277.55	2,310.97	276.44	2,675.58	23,380.83
Bank overdraft.....	1,868.68	140.37			
Other liabilities.....	268.40	614.00	280.00	193.00	617.40
Total liabilities.....	5,214.63	3,065.34	556.44	2,868.58	23,998.23
RESERVES					
For equity in H-E.P.C. systems... ..	11,161.13	33,398.57	12,874.86	73,890.78	94,294.04
For depreciation.....	4,143.20	8,155.95	5,918.75	25,168.31	61,610.21
Other reserves.....				40.16	
Total reserves.....	15,304.33	41,554.52	18,793.61	99,099.25	155,904.25
SURPLUS					
Debentures paid.....	7,003.58	19,881.66	11,000.00	18,950.00	12,170.99
Local sinking fund.....					
Operating surplus.....	12,487.00	39,657.04	13,043.33	59,260.67	54,888.71
Net frequency standardization ex- pense charged this year.....					
Total surplus.....	19,490.58	59,538.70	24,043.33	78,210.67	67,059.70
Total liabilities, reserves and surplus.	40,009.54	104,158.56	43,393.38	180,178.50	246,962.18
Percentage of net debt to total assets.	18.0	4.3	1.8	3.7	15.7

“A”—Continued

Hydro Municipalities as at December 31, 1949

Preston 7,239	Priceville P.V.	Princeton P.V.	Queenston P.V.	Renfrew 6,434	Richmond 523	Richmond Hill 1,751
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
76,958.20	68.00			9,393.89		600.00
105,216.08	10,116.96	5,050.11	9,614.04	34,619.88	7,769.25	22,985.96
81,955.01	3,076.93	4,237.21	4,226.75	47,483.50	3,742.03	19,963.86
52,986.33	988.22	2,193.78	2,307.07	41,707.32	2,574.92	12,475.45
8,604.04	854.96	525.42	498.05	34,942.48	259.95	3,125.47
10,646.64			2,345.22	4,421.78	23.13	
32,126.75				496,732.50		
368,493.05	15,105.07	12,006.52	18,991.13	733,831.40	14,369.28	59,150.74
125.00	692.42	4,157.75	2,841.55	3,702.32		1,225.41
18,000.00		7,000.00	7,500.00			7,500.00
2,661.98	100.80	96.90	241.47	15,867.39	411.83	586.85
15,031.47				3,607.01		
445,920.49	1,701.41	17,507.80	12,182.51	6,706.45	6,513.90	39,905.00
63.32				4,902.40		
1,075.00						
851,370.31	17,599.70	40,768.97	41,756.66	768,616.97	21,295.01	108,368.00
1,528.43	4,000.00			44,408.62		
7,265.87	3,097.49	121.64	359.86	13,111.08	206.90	879.65
1,978.45					671.71	
2,335.84			45.00		109.87	1,077.24
13,108.59	7,097.49	121.64	404.86	57,519.70	988.48	1,956.89
445,920.49	1,701.41	17,507.80	12,182.51	6,706.45	6,513.90	39,905.00
160,558.67	1,515.03	4,253.28	5,912.40	114,441.48	3,217.09	7,379.17
398.61				3,270.67		69.37
606,877.77	3,216.44	21,761.08	18,094.91	124,418.60	9,730.99	47,353.54
151,271.57	6,166.10	3,550.00	9,500.00	466,828.11	5,887.33	12,200.00
*80,112.38	1,119.67	15,336.25	13,756.89	119,850.56	4,688.21	46,857.57
231,383.95	7,285.77	18,886.25	23,256.89	586,678.67	10,575.54	59,057.57
851,370.31	17,599.70	40,768.97	41,756.66	768,616.97	21,295.01	108,368.00
3.2	44.6	0.5	1.4	7.5	6.7	2.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Ridgetown	Ripley	Riverside	Rockwood	Rodney
Population.....	2,209	437	6,857	P.V.	859
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	4,124.83		12,861.37	79.00	
Substation equipment.....	1,024.24		7,859.98		
Distribution system—overhead....	34,672.40	11,837.92	113,875.35	11,383.84	13,368.30
Distribution system—underground.					
Line transformers.....	15,206.07	6,508.87	39,582.23	4,091.85	6,589.46
Meters.....	14,216.84	3,306.85	43,180.52	4,907.61	6,496.37
Street light equipment, regular....	7,433.78	975.93		776.41	3,587.90
Street light equipment, ornamental	1,431.73		19,163.24		
Miscellaneous construction expense	1,406.29		21,353.28	346.69	44.70
Steam or hydraulic plant.....					
Old plant.....					
Total plant.....	79,516.18	22,629.57	257,875.97	21,585.40	30,086.73
Bank and cash balance.....	3,821.70	1,347.23	100.00	3,169.41	1,265.56
Securities and investments.....	14,000.00		3,000.00	3,600.00	8,200.00
Accounts receivable.....	817.15	126.52	4,639.14	43.24	713.55
Inventories.....	635.06		7,872.19	88.83	
Sinking fund on local debentures..					
Equity in H-E.P.C. systems.....	74,461.35	14,886.24	147,115.71	19,326.85	23,826.97
Other assets.....				22.92	
Frequency standardization expenditure in suspense.....					
Total assets.....	173,251.44	38,989.56	420,603.01	47,836.65	64,092.81
LIABILITIES					
Debenture balance.....				373.01	
Accounts payable.....	4,672.70	245.45	5,087.72	75.91	522.82
Bank overdraft.....			4,592.33		
Other liabilities.....	2,331.73	214.83	21,261.61	203.72	335.00
Total liabilities.....	7,004.43	460.28	30,941.66	652.64	857.82
RESERVES					
For equity in H-E.P.C. systems....	74,461.35	14,886.24	147,115.71	19,326.85	23,826.97
For depreciation.....	23,869.49	5,420.67	64,709.55	10,161.02	8,684.28
Other reserves.....	11,213.45		135.37		73.15
Total reserves.....	109,544.29	20,306.91	211,960.63	29,487.87	32,584.40
SURPLUS					
Debentures paid.....	19,455.99	12,744.49	82,500.00	4,126.99	8,500.00
Local sinking fund.....					
Operating surplus.....	37,246.73	5,477.88	95,200.72	13,569.15	22,150.59
Net frequency standardization expense charged this year.....					
Total surplus.....	56,702.72	18,222.37	177,700.72	17,696.14	30,650.59
Total liabilities, reserves and surplus.	173,251.44	38,989.56	420,603.01	47,836.65	64,092.81
Percentage of net debt to total assets.	5.7	1.9	4.6	2.3	2.1

“A”—Continued

Hydro Municipalities as at December 31, 1949

Rosseau 240	Russell P.V.	St. Catharines 35,436	St. Clair Beach 322	St. George P.V.	St. Jacobs P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,004.42	13,665.06	31,162.35 261,609.71 394,954.62	13,129.63	7,324.95	8,967.79
2,405.53	3,375.11	295,472.56	4,166.31	8,050.69	7,891.82
1,364.70	2,875.64	213,540.84	3,582.06	4,564.47	5,063.38
623.60	1,344.70	31,077.90	1,485.48	1,948.53	493.20
1,067.16	46.89	29,486.71 17,241.28	22.00		73.50
13,465.41	21,307.40	1,274,545.97	22,385.48	21,888.64	22,489.69
2,021.59	4,337.47	48,462.70	199.59	4,070.55	2,719.99
2,500.00	3,500.00	403,000.00	3,500.00	6,000.00	10,000.00
120.43	1,069.97	58,759.31	302.06	175.05	522.38
7,130.13	10,229.54	36,277.15 1,323,424.43 620.56	12,338.52	24,293.20	30,171.63 10.00
		5,263.14			
25,237.56	40,444.38	3,150,353.26	38,725.65	56,427.44	65,913.69
3,927.35		5,250.00			
1,000.00	6,358.22	144,656.29	100.00		185.14
20.00	15.00	49,742.46	111.45	222.51	
4,947.35	6,373.22	199,648.75	211.45	222.51	185.14
7,130.13	10,229.54	1,323,424.43	12,338.52	24,293.20	30,171.63
4,134.67	1,161.32	375,967.08	7,659.75	2,200.60	6,030.85
68.74		3,167.09	34.74		
11,333.54	11,390.86	1,702,558.60	20,033.01	26,493.80	36,202.48
9,072.65	8,808.12	296,772.91	6,341.45	6,000.00	6,000.00
†115.98	13,872.18	*951,373.00	12,139.74	23,711.13	23,526.07
8,956.67	22,680.30	1,248,145.91	18,481.19	29,711.13	29,526.07
25,237.56	40,444.38	3,150,353.26	38,725.65	56,427.44	65,913.69
27.3	21.1	9.5	0.8	0.69	0.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra. † Deficit.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	St. Marys	St. Thomas	Sarnia	Scarborough Twp. V.A.
Population	3,929	19,135	23,284	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	19,669.56	79,143.04	150,215.67	23,016.77
Substation equipment	33,936.42	171,260.26	259,770.72	46,537.22
Distribution system—overhead	84,016.36	163,526.10	296,930.93	630,456.14
Distribution system—underground		99,947.38	127,215.99	
Line transformers	47,826.41	103,094.13	142,219.61	252,593.69
Meters	33,422.15	94,787.18	132,076.27	177,286.78
Street light equipment, regular	7,398.02	30,675.36	30,730.63	41,221.03
Street light equipment, ornamental		3,693.04	8,271.83	
Miscellaneous construction expense ..	22,812.99	8,533.47	87,536.83	17,000.20
Steam or hydraulic plant				
Old plant				
Total plant	249,081.91	754,659.96	1,234,968.48	1,188,111.83
Bank and cash balance	4,961.91	300.00	13,564.15	124,817.99
Securities and investments		108,000.00	15,000.00	
Accounts receivable	1,527.17	19,495.54	47,737.64	24,203.34
Inventories	8,381.96	28,247.99	67,332.19	
Sinking fund on local debentures				
Equity in H-E.P.C. systems	224,469.23	859,456.72	1,096,993.31	377,365.46
Other assets	335.47	3,240.84	6,954.19	429.12
Frequency standardization expenditure in suspense			9,187.23	56,741.16
Total assets	488,757.65	1,773,401.05	2,491,737.19	1,771,668.90
LIABILITIES				
Debenture balance	43,730.10		96,000.00	200,000.00
Accounts payable	202.06	6,397.00	4,006.00	93,989.87
Bank overdraft		1,650.88		
Other liabilities	1,594.00	21,997.18	25,471.94	125,417.70
Total liabilities	45,526.16	30,045.06	125,477.94	419,407.57
RESERVES				
For equity in H-E.P.C. systems	224,469.23	859,456.72	1,096,993.31	377,365.46
For depreciation	86,578.33	282,939.22	320,633.94	241,395.53
Other reserves	701.02	402.12	5,078.35	15,916.01
Total reserves	311,748.58	1,142,798.06	1,422,705.60	634,677.00
SURPLUS				
Debentures paid	110,530.28	138,944.07	342,000.00	290,568.27
Local sinking fund				
Operating surplus	20,952.63	461,613.86	*601,553.65	*427,016.06
Net frequency standardization expense charged this year				
Total surplus	131,482.91	600,557.93	943,553.65	717,584.33
Total liabilities, reserves and surplus ..	488,757.65	1,773,401.05	2,491,737.19	1,771,668.90
Percentage of net debt to total assets ..	17.2	2.9	8.5	31.4

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued

Hydro Municipalities as at December 31, 1949

Seaforth	Shelburne	Simcoe	Smiths Falls	Smithville	Southampton
1,971	1,209	6,908	8,335	P.V.	1,792
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,836.39	800.00	11,422.49	40,750.67		25.00
8,930.07	566.60	42,577.90	8,411.82		
33,883.59	22,358.93	82,405.53	118,952.04	13,312.55	35,891.26
		1,412.24			
22,473.64	16,612.71	72,818.84	62,054.23	6,033.22	16,517.69
15,509.50	10,638.35	52,606.34	52,744.08	5,811.47	14,118.19
5,789.27	8,737.78	24,363.88	22,340.93	1,731.00	6,019.72
		1,037.04			
3,068.52	338.68	10,658.40	10,521.59	165.29	1,932.96
		927.92		1,878.98	
91,490.98	60,053.05	300,230.58	315,775.36	28,932.51	74,504.82
20.00		470.93	623.15	4,167.18	176.98
9,000.00	7,500.00	42,500.00	67,360.00	12,500.00	7,500.00
6,493.49	402.48	4,898.11	706.74	26.58	369.43
1,180.17		20,331.85	8,336.81	459.92	
106,533.66	33,846.29	208,667.56	194,422.77	5,705.64	28,894.19
51.20		424.59			
214,769.50	101,801.82	577,523.62	587,224.83	51,791.83	111,445.42
5,968.31		1,790.45		1,007.67	
4,038.94	73.34	860.79	2,617.50		2,923.72
356.98	981.10				
603.78	81.00	3,684.68	419.35	60.00	4.17
10,968.01	1,135.44	6,335.92	3,036.85	1,067.67	2,927.89
106,533.66	33,846.29	208,667.56	194,422.77	5,705.64	28,894.19
23,527.28	22,157.34	75,374.40	114,410.12	7,479.38	11,365.71
251.52			160.55		
130,312.46	56,003.63	284,041.96	308,993.44	13,185.02	40,259.90
29,031.69	16,991.04	73,644.45	122,787.33	13,992.33	30,522.93
44,457.34	27,671.71	213,501.29	152,407.21	23,546.81	37,734.70
73,489.03	44,662.75	287,145.74	275,194.54	37,539.14	68,257.63
214,769.50	101,801.82	577,523.62	587,224.83	51,791.83	111,445.42
10.1	1.7	1.7	0.8	2.3	3.5

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Springfield	Stamford Twp. V.A.	Stayner	Stirling
Population.....	455		1,120	1,115
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		33,510.98		8,522.88
Substation equipment.....		58,800.72	200.00	8,034.64
Distribution system—overhead.....	11,955.86	257,660.18	20,085.09	11,302.20
Distribution system—underground.....				
Line transformers.....	5,018.30	129,330.79	12,403.05	8,114.80
Meters.....	3,250.21	85,910.10	10,645.91	8,172.01
Street light equipment, regular.....	629.47	18,288.73	1,761.44	3,477.33
Street light equipment, ornamental.....				
Miscellaneous construction expense.....	253.60	24,087.77		759.38
Steam or hydraulic plant.....				
Old plant.....		13,743.66		
Total plant.....	21,107.44	621,332.93	45,095.49	48,383.24
Bank and cash balance.....	2,990.03	56,631.52	3,550.87	9,478.02
Securities and investments.....	5,500.00	6,000.00	11,000.00	12,500.00
Accounts receivable.....	128.99	18,887.32	484.49	638.35
Inventories.....		29,512.89	223.73	1,364.46
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	15,091.24	182,790.60	30,303.38	17,851.27
Other assets.....		803.27	200.00	
Frequency standardization expenditure in suspense.....				
Total assets.....	44,817.70	915,958.53	90,857.96	90,215.34
LIABILITIES				
Debenture balance.....		194,599.68		
Accounts payable.....	936.52	2,821.85	1,824.53	346.76
Bank overdraft.....				
Other liabilities.....	25.00	8,259.59	436.78	415.93
Total liabilities.....	961.52	205,681.12	2,261.31	762.69
RESERVES				
For equity in H-E.P.C. systems.....	15,091.24	182,790.60	30,303.38	17,851.27
For depreciation.....	6,399.58	141,491.32	16,944.88	11,357.08
Other reserves.....		871.88	38.90	
Total reserves.....	21,490.82	325,153.80	47,287.16	29,208.35
SURPLUS				
Debentures paid.....	9,500.00	245,678.49	9,557.26	10,000.00
Local sinking fund.....				
Operating surplus.....	12,865.36	139,445.12	31,752.23	50,244.30
Net frequency standardization expense charged this year.....				
Total surplus.....	22,365.36	385,123.61	41,309.49	60,244.30
Total liabilities, reserves and surplus.....	44,817.70	915,958.53	90,857.96	90,215.34
Percentage of net debt to total assets.....	3.2	28.1	3.7	1.1

“A”—Continued

Hydro Municipalities as at December 31, 1949

Stoney Creek	Stouffville	Stratford	Strathroy	Streetsville	Sunderland
1,395	1,438	18,548	3,333	870	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		141,455.78	9,373.61	12,202.72	
		187,174.58	43,832.45	1,172.04	
29,515.35	20,392.37	165,515.51	60,096.08	13,251.69	6,775.30
		22,971.15			
19,038.90	12,700.38	129,776.33	45,082.81	12,823.51	4,206.15
14,484.59	8,154.53	114,776.75	22,742.64	7,492.58	3,459.07
1,381.16	2,295.22	27,351.38	7,074.15	1,619.31	802.58
690.64	739.79	30,726.28	2,589.06	1,104.05	
				10,641.55	
		31,520.00			
65,110.64	44,282.29	851,267.76	190,790.80	60,307.45	15,243.10
3,564.26	5,608.03	49,805.45	4,964.51	4,845.80	2,240.52
	6,000.00	383,000.00	24,000.00		
174.45	170.73	21,301.27	1,757.84	317.51	189.77
		20,095.50	547.44		51.10
		37,481.04			
1,824.39	32,628.45	997,898.37	157,974.90	9,966.73	17,315.97
		2,552.00			300.00
			1,754.14		
70,673.74	88,689.50	2,363,401.39	381,789.63	75,437.49	35,340.46
38,585.56		50,000.00	2,978.93		
4,311.01	568.74	1,050.40	1,263.17	4,350.49	1,404.34
364.14	626.05	7,033.39	1,226.59	300.65	15.00
43,260.71	1,194.79	58,083.79	5,468.69	4,651.14	1,419.34
1,824.39	32,628.45	997,898.37	157,974.90	9,966.73	17,315.97
4,468.76	4,018.23	471,709.77	61,558.24	6,719.92	5,383.27
	50.96	3,552.21	144.87		52.28
6,293.15	36,697.64	1,473,160.35	219,678.01	16,686.65	22,751.52
1,414.44	14,673.90	405,800.00	50,909.92	17,545.08	4,627.78
		37,481.04			
19,705.44	36,123.17	388,876.21	*105,733.01	36,554.62	6,541.82
21,119.88	50,797.07	832,157.25	156,642.93	54,099.70	11,169.60
70,673.74	88,689.50	2,363,401.39	381,789.63	75,437.49	35,340.46
62.8	2.1	4.3	2.4	7.1	7.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Sutton	Swansea	Tara	Tavistock
Population.....	1,114	7,360	491	1,079
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		5,577.66		3,783.53
Substation equipment.....		132.18		
Distribution system—overhead.....	27,615.71	109,479.65	16,395.75	16,976.77
Distribution system—underground.....				
Line transformers.....	18,890.88	69,121.25	5,665.52	10,697.76
Meters.....	11,181.93	45,574.92	2,948.06	8,502.94
Street light equipment, regular.....	2,764.32	22,147.03	2,825.90	1,301.20
Street light equipment, ornamental.....				
Miscellaneous construction expense..	1,538.73	31,374.35	175.50	1,049.73
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	61,991.57	283,407.04	28,010.73	42,311.93
Bank and cash balance.....	4,118.84	1,350.58	219.08	15.00
Securities and investments.....	7,000.00	20,000.00		11,500.00
Accounts receivable.....	724.47	1,255.57	134.64	164.87
Inventories.....		121.32		2,829.50
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....	32,639.24	174,698.00	15,294.35	79,176.85
Other assets.....		118.98		
Frequency standardization expenditure in suspense.....	8.25			
Total assets.....	106,482.37	480,951.49	43,658.80	135,998.15
LIABILITIES				
Debenture balance.....		32,959.31		
Accounts payable.....	933.83	3,070.08	676.61	316.46
Bank overdraft.....				1,313.11
Other liabilities.....	20.00	5,415.59		
Total liabilities.....	953.83	41,444.98	676.61	1,629.57
RESERVES				
For equity in H-E.P.C. systems.....	32,639.24	174,698.00	15,294.35	79,176.85
For depreciation.....	14,652.31	73,291.99	3,985.54	16,853.85
Other reserves.....	145.84	245.59		
Total reserves.....	47,437.39	248,235.58	19,279.89	96,030.70
SURPLUS				
Debentures paid.....	25,325.00	69,707.65	14,263.64	6,000.00
Local sinking fund.....				
Operating surplus.....	*32,766.15	121,563.28	9,438.66	32,337.88
Net frequency standardization expense charged this year.....				
Total surplus.....	58,091.15	191,270.93	23,702.30	38,337.88
Total liabilities, reserves and surplus..	106,482.37	480,951.49	43,658.80	135,998.15
Percentage of net debt to total assets...	1.3	13.5	2.4	2.9

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

“A”—Continued
Hydro Municipalities as at December 31, 1949

Tecumseh 3,343	Teeswater 849	Thamesford P.V.	Thamesville 857	Thedford 579	Thornbury 943
\$ c. 1,232.16	\$ c.	\$ c.	\$ c. 1,083.57	\$ c.	\$ c.
52,987.27	20,708.54	11,420.29	18,314.44	12,427.72	4,404.73 14,120.93
17,677.43	9,183.01	4,777.88	10,815.63	8,824.65	11,098.69
21,164.53	6,836.46	4,396.95	6,584.44	4,108.88	7,205.11
276.77	4,043.35	612.03	3,052.08	1,703.10	1,388.86
4,760.95	.....	.....	.....	.....	.....
1,855.67	.....	934.72	232.21	1,826.88	376.41 36,000.00
.....
99,954.78	40,771.36	22,141.87	40,082.37	28,891.23	74,594.73
1,698.73	665.41	.....	2,018.83	3,345.86	.....
5,000.00	11,000.00	2,000.00	10,500.00	10,000.00	.....
2,164.14	92.74	178.33	836.51	936.49	226.83
453.60	.....	.....	.....	.....	.....
47,968.13	22,181.73	30,033.35	30,089.18	17,575.55 7.27	1,491.92
.....
157,239.38	74,711.14	54,353.55	83,526.89	60,756.40	76,313.48
.....
769.11	1,089.11	390.51	414.23	2,298.14	5,317.72 415.43
.....	.....	2.21	.....	.....	532.15
5,510.26	804.00	104.00	574.00	134.33	20.00
6,279.37	1,893.11	496.72	988.23	2,432.47	6,285.30
.....
47,968.13	22,181.73	30,033.35	30,089.18	17,575.55	1,491.92
26,226.70	12,528.17	8,570.26	15,883.07	5,973.87	2,783.67
494.01	.....	.....	144.39	.....	.....
74,688.84	34,709.90	38,603.61	46,116.64	23,549.42	4,275.59
.....
26,000.00	21,296.14	5,358.03	11,187.80	16,500.00	50,682.28
50,271.17	16,811.99	9,895.19	25,234.22	18,274.51	15,070.31
.....
76,271.17	38,108.13	15,253.22	36,422.02	34,774.51	65,752.59
157,239.38	74,711.14	54,353.55	83,526.89	60,756.40	76,313.48
1.5	3.6	2.0	1.8	5.6	8.4

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Thorndale	Thornton	Thorold	Tilbury
Population	P.V.	P.V.	6,173	2,205
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings			14,788.52	11,987.47
substation equipment			48,904.99	
Distribution system—overhead	5,463.16	7,907.92	70,634.73	31,225.08
Distribution system—underground				
Line transformers	3,495.62	4,547.29	38,647.20	28,387.93
Meters	2,474.26	1,409.12	37,155.13	13,881.55
Street light equipment, regular	222.51	519.06	9,807.83	18,141.76
Street light equipment, ornamental				
Miscellaneous construction expense	148.95		10,355.76	2,420.39
Steam or hydraulic plant				
Old plant				
Total plant	11,804.50	14,383.39	230,294.16	106,044.18
Bank and cash balance	260.29	66.18	50.00	
Securities and investments	1,500.00	1,000.00	30,800.00	
Accounts receivable	582.27	37.98	239.56	1,555.65
Inventories	845.53		10,596.42	120.19
Sinking fund on local debentures				
Equity in H-E.P.C. systems	14,696.33	5,842.49	192,551.58	93,321.19
Other assets		347.49		5.32
Frequency standardization expenditure in suspense				
Total assets	29,688.92	21,677.53	464,531.72	201,046.53
LIABILITIES				
Debenture balance				
Accounts payable	715.41	913.84	25,162.35	5,450.41
Bank overdraft			8,256.12	3,539.36
Other liabilities	455.57	50.00	3,034.50	1,022.25
Total liabilities	1,170.98	963.84	36,452.97	10,012.02
RESERVES				
For equity in H-E.P.C. systems	14,696.33	5,842.49	192,551.58	93,321.19
For depreciation	4,488.00	8,274.56	42,839.94	28,859.57
Other reserves	27.73			148.60
Total reserves	19,212.06	14,117.05	235,391.52	122,329.26
SURPLUS				
Debentures paid	3,086.48	7,199.65	5,000.00	14,000.00
Local sinking fund				
Operating surplus	6,219.40	†603.01	187,687.23	54,705.25
Net frequency standardization expense charged this year				
Total surplus	9,305.88	6,596.64	192,687.23	68,705.25
Total liabilities, reserves and surplus	29,688.92	21,677.53	464,531.72	201,046.53
Percentage of net debt to total assets	7.8	6.1	13.4	8.0

† Deficit

“A”—Continued

Hydro Municipalities as at December 31, 1949

Tillsonburg 4,727	Toronto* 680,000	Toronto Twp. V.A.	Tottenham 551	Trafalgar Twp. V.A.	Trenton 9,337
\$ c. 16,670.04	\$ c. 5,581,363.94	\$ c. 13,667.16	\$ c. 358.50	\$ c. 12,896.07	\$ c. 6,054.20
21,899.54	16,442,192.01	349,635.12	13,186.71	839.61	61,856.00
70,885.75	7,868,210.14			63,496.43	154,055.54
	4,506,691.49				
50,102.84	4,710,255.19	191,566.10	6,077.65	31,893.90	59,827.69
37,123.35	3,495,871.42	110,296.70	4,281.90	16,884.41	59,760.24
26,608.94	948,543.70	14,150.58	1,167.14	192.54	14,241.09
					10,549.81
7,989.76	2,207,972.56	20,227.93	920.96	5,303.86	13,868.68
		619.65			
231,280.22	45,761,100.45	700,163.24	25,992.86	131,506.82	380,213.25
100.00	219,255.38	4,671.04	2,496.40	20.00	1,322.77
	12,200,400.00	8,000.00			105,500.00
954.88	2,433,203.96	8,672.41	260.13	3,055.25	4,109.18
4,835.10	1,259,659.52	25,042.79	546.42	4,922.47	17,708.08
157,805.30	35,313,825.78	235,619.01	19,104.45	23,862.00	193,339.28
	540,138.81	81.94			326.40
394,975.50	97,727,583.90	982,250.43	48,400.26	163,366.54	702,518.96
6,446.08	635,500.00	48,990.84	9,462.33		
	1,968,377.58	57,920.94	288.89	21,349.00	6,529.09
6,659.59				17,491.83	
4,669.98	172,222.38	20,206.87	294.60	498.00	6,335.93
17,775.65	2,776,099.96	127,118.65	10,045.82	39,338.83	12,865.02
157,805.30	35,313,825.78	235,619.01	19,104.45	23,862.00	193,339.28
48,999.81	17,900,094.97	204,150.38	5,088.22	32,146.06	106,171.55
185.41	1,105,833.94	209.76			
206,990.52	54,319,754.69	439,979.15	24,192.67	56,008.06	299,510.83
39,553.92	28,887,912.24	105,009.16	11,972.64	28,887.56	164,586.70
130,655.41	11,750,142.74	310,143.47	2,189.13	39,132.09	225,556.41
	6,325.73				
170,209.33	40,631,729.25	415,152.63	14,161.77	68,019.65	390,143.11
394,975.50	97,727,583.90	982,250.43	48,400.26	163,366.54	702,518.96
7.5	4.4	17.0	34.3	28.2	2.5

*Includes 1949 power adjustment and equity in H-E.P.C. system.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Tweed	Uxbridge	Victoria Harbour 933	Walkerton
Population	1,700	1,630		2,979
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings				47.92
Substation equipment		2,657.65		
Distribution system—overhead	25,132.29	25,925.09	14,372.34	52,429.32
Distribution system—underground				
Line transformers	13,090.48	11,125.86	3,660.33	33,541.73
Meters	9,213.07	10,072.89	5,630.38	20,428.74
Street light equipment, regular	2,663.69	2,118.31	366.32	7,167.94
Street light equipment, ornamental				
Miscellaneous construction expense		169.98	20.00	4,369.34
Steam or hydraulic plant				
Old plant				4,897.60
Total plant	50,099.53	52,069.78	24,049.37	122,882.59
Bank and cash balance	6,792.74	1,184.12	411.67	8,879.74
Securities and investments	12,000.00	9,000.00	1,500.00	30,000.00
Accounts receivable	2,394.81	529.16	157.20	616.81
Inventories	1,288.61	121.27	112.60	990.07
Sinking fund on local debentures				
Equity in H-E.P.C. systems	21,409.37	36,654.70	11,246.57	47,469.98
Other assets		851.20		106.15
Frequency standardization expenditure in suspense				
Total assets	93,985.06	100,410.23	37,477.41	210,945.34
LIABILITIES				
Debenture balance				9,399.85
Accounts payable	338.50	1,712.84	66.73	314.86
Bank overdraft				
Other liabilities	312.00	817.00		425.50
Total liabilities	650.50	2,529.84	66.73	10,140.21
RESERVES				
For equity in H-E.P.C. systems	21,409.37	36,654.70	11,246.57	47,469.98
For depreciation	2,479.46	7,637.82	7,988.78	16,550.39
Other reserves	143.49	184.37		37.15
Total reserves	24,032.32	44,476.89	19,235.35	64,057.52
SURPLUS				
Debentures paid	19,000.00	15,364.09	5,878.70	53,600.15
Local sinking fund				
Operating surplus	50,302.24	38,039.41	12,296.63	83,147.46
Net frequency standardization expense charged this year				
Total surplus	69,302.24	53,403.50	18,175.33	136,747.61
Total liabilities, reserves and surplus	93,985.06	100,410.23	37,477.41	210,945.34
Percentage of net debt to total assets	0.9	4.0	0.2	6.2

“A”—Continued

Hydro Municipalities as at December 31, 1949

Wallaceburg 6,920	Wardsville 315	Warkworth P.V.	Waterdown 1,070	Waterford 1,546	Waterloo 10,680
\$ c. 55,789.65 68,934.73 115,929.96	\$ c. 6,963.11	\$ c. 6,263.18	\$ c. 200.00 21,012.25	\$ c. 1,323.44 17,801.48	\$ c. 19,587.15 124,729.38 137,723.17
77,624.77 43,731.42 13,645.78	2,825.61 2,746.89 662.94	1,757.91 2,792.43 343.08	11,940.59 8,864.09 1,469.98	14,865.70 10,505.82 3,231.62	104,158.63 59,206.06 17,477.13
7,389.37	137.89	609.19	1,220.79	600.60	3,106.80 9,671.32
		3,618.02			23,880.17
383,045.68	13,336.44	15,383.81	44,707.70	48,328.66	499,539.81
35,137.24 70,500.00 6,806.18 22,767.15	542.27 4,000.00 595.45	2,228.52 4,200.00 40.51	5,440.21 6,000.00 274.01 138.75	3,692.56 11,000.00 211.48 150.00	5,000.00 3,387.48 1,614.32
363,052.87 5,416.68	6,575.34	7,471.37	37,054.15 21.87	55,591.81	486,128.81 74.43
886,725.80	25,049.50	29,324.21	88,196.48	120,722.16	999,437.41
		3,366.26 486.74	700.66 487.06 109.28	427.97	6,304.30
1,209.85 3,923.68	140.23	25.20			6,736.80
5,133.53	140.23	3,878.20	1,297.00	427.97	13,041.10
363,052.87 100,594.76 1,803.79	6,575.34 5,000.13 25.22	7,471.37 2,992.08	37,054.15 12,544.55	55,591.81 16,145.10	486,128.81 204,167.24 400.00
465,451.42	11,600.69	10,463.45	49,598.70	71,736.91	690,696.05
71,536.58 344,604.27	7,562.40 5,746.18	7,633.74 7,348.82	8,000.00 29,300.78	7,745.53 40,811.75	106,000.00 189,700.26
416,140.85	13,308.58	14,982.56	37,300.78	48,557.28	295,700.26
886,725.80	25,049.50	29,324.21	88,196.48	120,722.16	999,437.41
1.0	0.8	17.7	2.5	0.6	1.9

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Watford	Waubau- shene P.V.	Welland	Wellesley P.V.
Population	1,079		16,004	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings	857.01		79,869.27	
Substation equipment			170,436.10	
Distribution system—overhead	18,455.96	12,531.62	214,616.01	8,900.92
Distribution system—underground			8,426.23	
Line transformers	9,285.97	4,399.80	141,457.69	5,266.54
Meters	7,803.69	4,325.35	104,643.66	4,394.36
Street light equipment, regular	2,757.32	374.53	45,479.73	785.22
Street light equipment, ornamental			41,105.28	
Miscellaneous construction expense	1,570.09	15.00	8,641.17	748.18
Steam or hydraulic plant				
Old plant				
Total plant	40,730.04	21,646.30	814,675.14	20,095.22
Bank and cash balance	4,003.75	325.02	19,462.86	1,240.92
Securities and investments	19,800.00		112,796.23	6,000.00
Accounts receivable	418.05	1,713.15	6,388.93	10.58
Inventories	1,079.84		24,026.19	73.41
Sinking fund on local debentures				
Equity in H-E.P.C. systems	43,910.60	8,816.59	603,756.26	26,225.36
Other assets	21.64	15.59	71.74	
Frequency standardization expenditure in suspense				
Total assets	109,963.92	32,516.65	1,581,177.35	53,645.49
LIABILITIES				
Debenture balance				
Accounts payable	9.50	1,036.76	28,329.44	130.13
Bank overdraft				
Other liabilities	322.10	600.00	55,185.80	15.00
Total liabilities	331.60	1,636.76	83,515.24	145.13
RESERVES				
For equity in H-E.P.C. systems	43,910.60	8,816.59	603,756.26	26,225.36
For depreciation	15,877.14	3,747.85	241,748.89	5,970.69
Other reserves	92.53	125.00	3,625.48	
Total reserves	59,880.27	12,689.44	849,130.63	32,196.05
SURPLUS				
Debentures paid	9,055.77	3,242.34	275,000.00	7,500.00
Local sinking fund				
Operating surplus	40,696.28	14,948.11	373,531.48	13,804.31
Net frequency standardization expense charged this year				
Total surplus	49,752.05	18,190.45	648,531.48	21,304.31
Total liabilities, reserves and surplus	109,963.92	32,516.65	1,581,177.35	53,645.49
Percentage of net debt to total assets	0.5	6.8	4.5	0.5

“A”—Continued

Hydro Municipalities as at December 31, 1949

Wellington	West Lorne	Weston	Westport	Wheatley	Whitby	Warton
1,036	927	7,219	687	969	4,638	1,837
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
200.00	22,310.45	21,620.44		52.50	78,984.99	
499.80		67,608.13			34,288.16	333.57
17,798.37	16,304.99	145,677.52	8,507.35	23,941.12	84,247.89	27,091.34
10,278.49	8,651.95	101,412.28	2,800.67	14,299.03	30,162.21	15,325.30
9,330.54	7,032.52	50,266.76	3,111.88	9,261.13	31,534.78	12,010.00
1,388.47	3,738.72	15,492.52	733.02	9,501.28	13,719.40	3,513.56
73.70	323.57	11,542.24	1,349.38	1,572.93	13,956.80	6,471.87
			1,713.00		1,340.13	1,870.35
39,569.37	58,362.20	413,619.89	18,215.30	58,627.99	288,234.36	66,615.99
8,092.30	55.00	150.00	1,235.95	647.61	10,158.68	4,423.19
12,000.00			4,500.00			14,000.00
208.82	221.61	7,617.43		157.07	6,115.96	2,150.92
	465.46	1,096.55			15,402.34	
19,958.96	42,791.91	427,305.37	10,758.51	26,290.31	100,458.91	30,530.08
	92.88	20.70		.48	121.76	
79,829.45	101,989.06	849,809.94	34,709.76	85,723.46	420,492.01	117,720.18
		14,500.00	2,317.48		1,041.07	8,172.78
	3,851.65	17,269.58	283.96	6,314.20	21,720.00	3,799.04
	3,338.82	12,903.51				
46.25	323.00	2,261.43	352.42	150.00	1,681.31	177.21
46.25	7,513.47	46,934.52	2,953.86	6,464.20	24,442.38	12,149.03
19,958.96	42,791.91	427,305.37	10,758.51	26,290.31	100,458.91	30,530.08
11,396.82	12,311.16	71,103.23	3,482.30	13,495.57	58,089.57	8,544.53
	65.12	365.40		44.30		84.95
31,355.78	55,168.19	498,774.00	14,240.81	39,830.18	158,548.48	39,159.56
13,816.12	8,000.00	70,032.44	12,682.52	13,000.00	75,571.43	29,227.22
34,611.30	31,307.40	234,068.98	4,832.57	26,429.08	161,929.72	37,184.37
48,427.42	39,307.40	304,101.42	17,515.09	39,429.08	237,501.15	66,411.59
79,829.45	101,989.06	849,809.94	34,709.76	85,723.46	420,492.01	117,720.18
0.1	12.7	11.1	12.3	1.1	7.6	13.9

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Williams- burg P.V.	Winchester	Windermere	Windsor*
Population		1,094	118	118,702
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings		299.85		612,595.46
Substation equipment				1,689,361.58
Distribution system—overhead	4,212.74	14,664.58	10,451.19	1,575,429.68
Distribution system—underground				555,413.06
Line transformers	2,718.05	9,057.02	5,291.36	740,489.28
Meters	2,662.24	8,600.46	1,756.89	723,945.70
Street light equipment, regular	859.02	2,943.90	247.26	108,211.00
Street light equipment, ornamental				1,021,495.33
Miscellaneous construction expense	35.38	143.50	525.65	256,376.38
Steam or hydraulic plant				
Old plant		1,100.00		166,440.66
Total plant	10,487.43	36,809.31	18,272.35	7,449,758.13
Bank and cash balance	8,251.43	4,329.31	903.95	1,000.00
Securities and investments	21,000.00	10,500.00	2,600.00	1,069,798.18
Accounts receivable	1,086.96	325.56	176.45	221,078.97
Inventories			16.88	362,719.38
Sinking fund on local debentures				104,178.98
Equity in H-E.P.C. systems	10,818.52	35,426.90	5,081.82	5,718,369.29
Other assets			343.34	810.00
Frequency standardization expenditure in suspense				
Total assets	51,644.34	87,391.08	27,394.79	14,927,712.93
LIABILITIES				
Debenture balance			1,931.25	190,000.00
Accounts payable	2,662.34	411.36	90.73	183,469.22
Bank overdraft				248,995.79
Other liabilities	293.43	10.00		1,157,614.83
Total liabilities	2,955.77	421.36	2,021.98	1,780,079.84
RESERVES				
For equity in H-E.P.C. systems	10,818.52	35,426.90	5,081.82	5,718,369.29
For depreciation	5,225.88	13,019.60	5,892.51	2,173,228.79
Other reserves	325.61			240,796.63
Total reserves	16,370.01	48,446.50	10,974.33	8,132,394.71
SURPLUS				
Debentures paid	2,750.00	10,306.06	9,832.05	2,393,832.05
Local sinking fund				104,178.98
Operating surplus	29,568.56	28,217.16	4,566.43	2,517,227.35
Net frequency standardization expense charged this year				
Total surplus	32,318.56	38,523.22	14,398.48	5,015,238.38
Total liabilities, reserves and surplus	51,644.34	87,391.08	27,394.79	14,927,712.93
Percentage of net debt to total assets	7.2	0.8	9.1	9.4

*Includes 1949 power adjustment and equity in H-E.P.C. system.

“A”—Continued

Hydro Municipalities as at December 31, 1949

Wingham 2,368	Woodbridge 1,250	Woodstock 13,533	Woodville 408	Wyoming 644	York Twp. V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
22,951.02		68,326.18		50.00	96,789.13
4,863.91		142,430.86			498,980.44
55,182.43	22,486.26	191,031.94	4,050.72	13,974.99	1,043,514.54
27,935.81	12,145.32	110,022.65	2,133.84	5,074.99	531,304.26
24,172.62	8,948.18	104,696.55	2,513.58	5,428.29	464,634.62
11,534.41	2,723.35	34,615.17	574.98	548.49	126,248.30
15,340.89	49.70	21,092.54		809.52	78,160.10
14,711.99		33,009.60			
12,320.02					
189,013.10	46,352.81	705,225.49	9,273.12	25,886.28	2,839,631.39
	595.39		1,426.77	931.02	65,798.80
	12,000.00		5,000.00	2,600.00	200,000.00
4,485.90	47.37	6,547.44	143.40	157.89	79,127.47
23,326.40		315.76			45,292.77
72,526.38	59,658.73	730,658.52	16,578.56	14,491.53	1,395,709.35
614.49		260.72			
					7,748.71
289,966.27	118,654.30	1,443,007.93	32,421.85	44,066.77	4,633,308.49
5,576.95			329.70		
10,000.00	931.17	7,118.11		924.96	111,978.72
199.82		40,281.10			
1,593.15	913.36	10,254.71	15.00	63.89	98,194.49
17,369.92	1,844.53	57,653.92	344.70	988.85	210,173.21
72,526.38	59,658.73	730,658.52	16,578.56	14,491.58	1,395,709.35
43,875.50	16,785.28	228,388.72	3,799.41	7,442.17	907,738.90
		1,086.01	544.81	32.63	16,878.25
116,401.88	76,444.01	960,133.25	20,922.78	21,966.38	2,320,326.50
90,528.55	8,499.97	127,385.63	5,248.09	9,700.00	489,374.65
65,665.92	31,865.79	297,835.13	5,906.28	11,411.54	*1,613,434.13
156,194.47	40,365.76	425,220.76	11,154.37	21,111.54	2,102,808.78
289,966.27	118,654.30	1,443,007.93	32,421.85	44,066.77	4,633,308.49
8.0	3.1	8.1	2.2	3.3	6.5

*Subject to charges which will result from the allocation of frequency standardization expenditure in suspense shown in contra.

STATEMENT

Balance Sheets of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Concluded

Municipality.....	Zurich	SOUTHERN ONTARIO SYSTEM SUMMARY	Fort William 33,220	Nipigon
Population.....	P.V.			V.A.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....		12,878,917.04	109,322.31	215.03
Substation equipment.....		31,298,729.31	261,128.50	
Distribution system—overhead....	9,193.76	32,444,474.09	337,179.31	27,174.26
Distribution system—underground....		8,663,874.53		
Line transformers.....	5,562.48	18,587,369.46	164,096.48	11,204.41
Meters.....	4,315.99	14,348,428.34	147,713.80	8,356.00
Street light equipment, regular....	621.57	4,435,596.70	95,043.21	5,626.79
Street light equipment, ornamental....		1,564,378.72		
Miscellaneous construction expense	303.34	4,434,588.47	76,544.83	1,497.00
Steam or hydraulic plant.....		1,153,541.33		
Old plant.....		753,299.50		
Total plant.....	19,997.14	130,563,197.49	1,191,028.44	54,073.49
Bank and cash balance.....	670.85	2,578,912.58		315.11
Securities and investments.....	6,000.00	23,209,561.67	205,300.00	11,000.00
Accounts receivable.....	74.93	4,691,757.28	58,921.73	470.54
Inventories.....		4,013,153.66	66,811.67	
Sinking fund on local debentures....		388,360.79	167,798.77	
Equity in H-E.P.C. systems.....	22,817.83	94,528,394.73	1,590,997.86	19,334.40
Other assets.....		1,084,192.32	4,656.30	
Frequency standardization expendi- ture in suspense.....		155,744.87		
Total assets.....	49,560.75	261,213,275.39	3,285,514.77	85,193.54
LIABILITIES				
Debenture balance.....		4,168,802.31	250,000.00	
Accounts payable.....	49.89	5,338,343.00	83,931.08	401.01
Bank overdraft.....		919,080.83	2,686.04	
Other liabilities.....	10.00	2,766,894.83	47,077.45	445.23
Total liabilities.....	59.89	13,193,120.97	383,694.57	846.24
RESERVES				
For equity in H-E.P.C. systems....	22,817.83	94,528,394.73	1,590,997.86	19,334.40
For depreciation.....	6,034.77	42,073,116.29	271,814.93	6,076.46
Other reserves.....		4,389,235.60	37,631.91	
Total reserves.....	28,852.60	140,990,746.62	1,900,444.70	25,410.86
SURPLUS				
Debentures paid.....	5,591.61	54,062,996.17	124,209.11	10,000.00
Local sinking fund.....		388,360.79	167,798.77	
Operating surplus.....	15,056.65	52,586,279.20	709,367.62	48,936.44
Net frequency standardization ex- pense charged this year.....		8,228.36		
Total surplus.....	20,648.26	107,029,407.80	1,001,375.50	58,936.44
Total liabilities, reserves and surplus.	49,560.75	261,213,275.39	3,285,514.77	85,193.54
Percentage of net debt to total assets.	0.2	6.8	14.1	0.1

“A”—Continued

Hydro Municipalities as at December 31, 1949

THUNDER BAY SYSTEM—				
Port Arthur	Red Rock	Schreiber	Terrace Bay	THUNDER BAY SYSTEM SUMMARY
29,165	I.D.	V.A.	I.D.	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
533,436.77		4,500.00		647,474.11
429,278.36	900.00			691,306.86
662,182.29	17,893.38	26,639.71	42,348.37	1,113,417.32
181,194.80	9,055.30	7,724.03	13,846.54	387,121.56
184,411.23	4,422.39	6,111.08	8,455.48	359,469.98
96,389.75	3,601.86	1,169.43	12,647.10	214,478.14
28,010.95	2,628.00	40.00	548.00	109,268.78
325,003.44				325,003.44
		19,962.18		19,962.18
2,439,907.59	38,500.93	66,146.43	77,845.49	3,867,502.37
6,678.82	2,975.11	1,242.14	8,158.87	19,370.05
627,000.00				843,300.00
68,032.84	534.09	260.61		128,219.81
61,785.66		6,465.06	2.36	135,064.75
		13,338.43		181,137.20
3,911,426.49	678.87		830.63	5,523,268.25
500.00				5,156.30
7,115,331.40	42,689.00	87,452.67	86,837.35	10,703,018.73
	28,860.00	46,162.69		325,022.69
95,444.61	3,534.77	9,973.53	6.99	193,291.99
				2,686.04
			76,444.73	123,967.41
95,444.61	32,394.77	56,136.22	76,451.72	644,968.13
3,911,426.49	678.87		830.63	5,523,268.25
932,683.83	1,452.00	923.00	3,012.00	1,215,962.22
145,671.53				183,303.44
4,989,781.85	2,130.87	923.00	3,842.63	6,922,533.91
627,246.73	2,340.00	3,837.31		767,633.15
		13,338.43		181,137.20
1,402,858.21	5,823.36	13,217.71	6,543.00	2,186,746.34
2,030,104.94	8,163.36	30,393.45	6,543.00	3,135,516.69
7,115,331.40	42,689.00	87,452.67	86,837.35	10,703,018.73
3.0	77.1	57.7	88.8	9.2

STATEMENT

Balance Sheets of Electrical Departments of

NORTHERN ONTARIO PROPERTIES

Municipality.....	Capreol	Larder Lake	McGarry	North Bay
Population.....	1,775	V.A.	I.D.	18,047
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	450.00			61,459.13
Substation equipment.....	9,730.32			108,501.91
Distribution system—overhead.....	15,128.49	19,415.20	13,210.55	200,065.48
Distribution system—underground...	9,189.10	10,861.00	7,066.00	71,356.24
Line transformers.....				
Meters.....	10,059.18	9,006.26	6,400.72	114,291.70
Street light equipment, regular.....	5,234.81	2,269.55	768.00	39,789.69
Street light equipment, ornamental.....				
Miscellaneous construction expense...	1,106.65	2,413.72	427.51	24,946.64
Steam or hydraulic plant.....				
Old plant.....				
Total plant.....	50,898.55	43,965.73	27,872.78	620,410.79
Bank and cash balance.....	2,808.66	4,252.10	6,087.84	
Securities and investments.....	1,000.00			6,100.00
Accounts receivable.....	944.57	129.74	29.22	14,645.44
Inventories.....	647.84			24,647.79
Sinking fund on local debentures.....				
Equity in H-E.P.C. systems.....				
Other assets.....				
Frequency standardization expenditure in suspense.....				
Total assets.....	56,299.62	48,347.57	33,989.84	665,804.02
LIABILITIES				
Debenture balance.....		18,000.00	14,000.00	
Accounts payable.....	2,985.72	3,261.76		20,896.11
Bank overdraft.....				21,915.97
Other liabilities.....	470.00	5,394.34	3,621.37	45,632.23
Total liabilities.....	3,455.72	26,656.10	17,621.37	88,444.31
RESERVES				
For equity in H-E.P.C. systems.....				
For depreciation.....	10,948.45	10,247.00	5,402.00	284,585.34
Other reserves.....	82.34	10,156.07	9,698.31	4,155.16
Total reserves.....	11,030.79	20,403.07	15,100.31	288,740.50
SURPLUS				
Debentures paid.....	19,000.00			228,157.68
Local sinking fund.....				
Operating surplus.....	22,813.11	1,288.40	1,268.16	60,461.53
Net frequency standardization expense charged this year.....				
Total surplus.....	41,813.11	1,288.40	1,268.16	288,619.21
Total liabilities, reserves and surplus...	56,299.62	48,347.57	33,989.84	665,804.02
Percentage of net debt to total assets...	6.1	55.1	51.8	13.3

“A”—Continued

Hydro Municipalities as at December 31, 1949

Sioux Lookout 2,155	Sudbury 41,206	NORTHERN ONTARIO PROPERTIES SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.
.....	171,401.53	233,310.66	13,759,701.81
.....	297,671.41	415,903.64	32,405,939.81
24,020.66	496,205.02	768,045.40	34,325,936.81
.....	.....	.....	8,663,874.53
12,880.23	181,377.28	292,729.85	19,267,220.87
10,897.11	191,806.16	342,461.13	15,050,359.45
1,917.69	147,938.98	197,918.72	4,847,993.56
.....	.....	.....	1,564,378.72
1,225.00	34,590.14	64,709.66	4,608,566.91
.....	.....	.....	1,478,544.77
.....	.....	.....	773,261.68
50,940.69	1,520,990.52	2,315,079.06	136,745,778.92
7,168.27	35,586.58	55,903.45	2,654,186.08
.....	50,000.00	57,100.00	24,109,961.67
808.41	42,148.21	58,705.59	4,878,682.68
.....	55,623.18	80,918.81	4,229,137.22
.....	.....	.....	569,497.99
.....	.....	.....	100,051,662.98
.....	.....	.....	1,089,348.62
.....	.....	.....	155,744.87
58,917.37	1,704,348.49	2,567,706.91	274,484,001.03
.....	19,919.63	51,919.63	4,545,744.63
824.89	106,754.24	134,722.72	5,666,357.71
.....	.....	21,915.97	943,682.84
3,027.42	35,125.34	93,270.70	2,984,132.94
3,852.31	161,799.21	301,829.02	14,139,918.12
.....	.....	.....	00,051,662.98
1,684.72	291,652.36	604,519.87	43,893,598.38
.....	77,347.80	101,439.68	4,673,978.72
1,684.72	369,000.16	705,959.55	148,619,240.08
.....	447,418.90	694,576.58	55,525,205.90
.....	.....	.....	569,497.99
53,380.34	726,130.22	865,341.76	55,638,367.30
.....	.....	.....	8,228.36
53,380.34	1,173,549.12	1,559,918.34	111,724,842.83
58,917.37	1,704,348.49	2,567,706.91	274,484,001.03
65.3	9.5	11.7	7.0

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Acton	Agincourt	Ailsa Craig	Alexandria	Alliston
Population.....	2,412	P.V.	501	2,194	2,009
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	24,574.01	9,552.67	4,283.70	13,963.18	19,595.22
Commercial light service.....	9,730.88	3,182.80	1,610.17	11,998.00	10,619.65
Commercial power service.....	36,824.26	5,693.59	2,131.59	5,258.69	7,746.48
Municipal power.....	833.47			824.12	995.88
Street lighting.....	2,507.74	942.00	670.00	2,210.20	2,098.20
Merchandise.....					
Miscellaneous.....	365.30	448.42	261.18	1,192.43	400.02
Total earnings.....	74,835.66	19,819.48	8,956.64	35,446.62	41,455.45
EXPENSES					
Cost of power supplied by H.E.P.C.	53,636.71	12,801.80	6,097.29	16,259.50	20,865.48
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	5,490.65	205.65	876.25	2,772.08	2,713.80
Line transformer maintenance.....	54.39	109.42		350.35	254.55
Meter maintenance.....	722.53	33.73	23.25	383.14	411.76
Consumers' premises expenses.....	80.46	195.70			1,207.82
Street lighting, operation and maintenance.....	425.89	180.47	121.56	301.94	381.55
Promotion of business.....	73.82				
Billing and collecting.....	1,435.04	731.66	433.46	1,402.68	1,585.38
General office, salaries and expenses.....	1,696.90	210.80	100.87	1,319.47	1,401.35
Undistributed expenses.....	1,240.18		15.07	127.57	153.50
Truck operation and maintenance.....	447.11			483.59	615.20
Interest.....			35.05		
Sinking fund and principal payments on debentures.....					
Depreciation.....	2,303.00	962.00	448.00	1,388.00	2,098.00
Other reserves.....					
Total operating costs and fixed charges.....	67,606.68	15,431.23	8,150.80	24,788.32	31,688.39
Net surplus.....	7,228.98	4,388.25	805.84	10,658.30	9,767.06
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	766	228	166	540	517
Commercial light service.....	109	35	54	140	134
Power service.....	22	6	5	17	24
Total.....	897	269	225	697	675

“B”

Hydro Municipalities for Year Ended December 31, 1949

Almonte 2,623	Alvinston 668	Amherstburg 3,313	Ancaster Twp. V.A.	Apple Hill P.V.	Arkona 389	Arnprior 4,552
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
22,972.98	4,403.34	35,564.18	18,632.38	1,862.25	4,468.84	30,304.80
9,319.36	3,622.15	15,895.92	6,127.99	1,103.51	2,317.23	17,111.37
19,619.69	1,347.76	14,096.19	1,331.11	329.97	148.15	24,147.35
1,634.00	228.00		477.85			2,678.82
2,860.50	1,670.00	2,789.04	1,193.00	478.50	1,349.92	3,754.19
1,811.32			37.40			
5,488.54	342.59	764.18	.75	116.06	120.80	2,873.19
63,706.39	11,613.84	69,109.51	27,800.48	3,890.29	8,404.94	80,869.72
19,606.49	6,234.52	48,091.01	16,031.45	1,632.91	5,280.67	46,128.98
9,682.98						
351.39						
3,199.71	557.80	4,191.47	1,334.73	425.03	956.06	3,471.05
130.29	15.00	223.06	835.39		23.27	315.03
507.97	27.00	669.91	185.27	2.50		336.63
148.34		1,627.54	59.22			58.00
469.70	139.19	1,496.30	117.75	44.00	150.12	691.33
3,004.92	412.65	1,336.68	997.63	317.26	227.00	2,905.15
3,262.04	378.29	1,843.32	1,618.96	169.68	367.80	2,696.08
478.86	43.62	590.87	128.35		9.75	425.46
835.46		626.71	808.64			
990.52		29.39	740.22		6.37	293.21
3,789.25			1,164.92			3,489.94
5,676.00	720.00	4,059.00	1,836.00	182.00	371.00	2,410.00
52,133.92	8,528.07	64,785.26	25,858.53	2,773.38	7,392.04	63,220.86
11,572.47	3,085.77	4,324.25	1,941.95	1,116.91	1,012.90	17,648.86
723	236	897	442	75	135	1,091
116	57	187	52	25	39	178
26	5	22	11	1	1	29
865	298	1,106	505	101	175	1,298

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Arthur	Athens	Aurora	Aylmer	Ayr
Population.....	1,192	760	3,392	3,280	837
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	8,920.49	7,509.77	37,155.56	23,723.40	8,038.52
Commercial light service.....	7,982.79	3,468.79	12,882.95	17,049.42	3,591.79
Commercial power service.....	1,469.82	666.65	27,723.37	21,021.33	4,812.36
Municipal power.....	430.92		1,991.16	1,512.34	
Street lighting.....	1,630.63	882.00	3,811.27	3,996.67	1,192.00
Merchandise.....	21.67				
Miscellaneous.....	156.29	176.04	505.09	1,012.39	251.77
Total earnings.....	20,612.61	12,703.25	84,069.40	68,315.55	17,886.44
EXPENSES					
Cost of power supplied by H-E.P.C.....	12,953.17	5,040.84	49,551.64	43,031.96	11,592.20
Substation operation.....					
Substation maintenance.....					
Distribution, system operation and maintenance.....	1,612.96	320.71	3,979.51	4,221.64	1,383.27
Line transformer maintenance.....			381.48	132.21	
Meter maintenance.....	167.55	90.97	401.51	327.76	38.40
Consumers' premises expenses.....			3,685.69	122.65	1.35
Street lighting, operation and maintenance.....	397.45	58.46	643.34	822.52	311.70
Promotion of business.....				4.88	
Billing and collecting.....	825.38	580.47	2,202.51	2,296.72	1,063.60
General office, salaries and expenses.....	325.80	125.76	2,276.06	1,667.58	154.81
Undistributed expenses.....	54.79		1,375.49	706.52	76.54
Truck operation and maintenance.....			1,091.62	623.80	
Interest.....	120.08			34.80	20.57
Sinking fund and principal payments on debentures.....	578.95				382.11
Depreciation.....	940.00	751.00	1,993.00	3,624.00	960.00
Other reserves.....					
Total operating costs and fixed charges.....	17,976.13	6,968.21	67,581.85	57,617.04	15,984.55
Net surplus.....	2,636.48	5,735.04	16,487.55	10,698.51	1,901.89
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	295	227	962	899	256
Commercial light service.....	84	43	144	198	50
Power service.....	8	2	29	27	9
Total.....	387	272	1,135	1,124	315

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Baden	Barrie	Bath	Beachville	Beamsville	Beaverton	Beeton
P.V.	11,914	368	P.V.	1,591	943	579
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,947.73	121,051.20	4,861.66	6,149.23	17,207.98	10,599.10	5,298.73
2,364.15	59,064.05	1,095.87	876.10	6,778.83	4,995.14	3,914.65
11,820.72	53,706.36	213.44	20,475.75	3,185.93	3,553.09	1,354.43
.....	4,621.84	.....	.....	.....	.....	.....
720.00	7,791.85	447.96	541.00	2,021.95	1,723.59	1,456.00
.....	427.34	.....	.....	.....	61.42	6.32
300.94	4,391.27	.....	680.42	744.10	280.95	221.58
21,153.54	251,053.91	6,618.93	28,722.50	29,938.79	21,213.29	12,251.71
.....
18,947.40	125,805.77	2,947.27	21,069.16	18,674.87	11,598.30	6,196.30
.....	3,107.36	.....	.....	.....	.....	.....
.....	89.90	.....	.....	.....	.....	.....
386.40	25,429.64	236.82	592.83	254.52	1,134.82	1,244.64
9.33	751.26	.....	67.71	.....	86.70	.....
92.99	3,884.90	36.83	526.62	92.78	23.06	117.54
51.63	3,056.35	.....	412.16	38.64	366.72	.....
458.33	1,233.11	24.00	199.53	319.31	230.11	96.92
.....	44.75	.....	.....	.....	.....	.....
424.73	7,788.38	320.15	345.80	1,957.84	1,289.78	492.16
192.42	4,739.34	176.83	457.35	1,409.47	848.36	294.64
35.01	3,252.90	.....	11.00	16.82	16.75	51.71
.....	2,738.20	.....	.....	.....	.....	.....
.....	.....	113.94	.....	.....	.....	.....
.....	.....	506.61	.....	.....	.....	.....
631.00	15,222.22	265.00	653.00	1,540.00	1,145.00	531.00
.....	128.40	.....	.....	.....	.....	.....
21,229.24	197,272.48	4,627.45	24,335.16	24,304.25	16,739.60	9,004.91
.....	53,781.43	1,991.48	4,387.34	5,634.54	4,473.69	3,246.80
75.70	.....	.....	.....	.....	.....	.....
.....
181	3,098	94	196	492	392	168
33	496	17	26	90	74	41
3	81	1	4	9	11	6
217	3,675	112	226	591	477	215

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Belle River	Belleville	Blenheim	Bloomfield	Blyth
Population	1,250	17,637	2,272	622	690
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	9,398.33	157,857.47	12,780.39	4,901.21	5,597.72
Commercial light service	5,022.88	83,611.07	12,957.87	3,265.44	3,277.07
Commercial power service	570.56	65,940.51	9,671.13	1,928.16	5,925.00
Municipal power	1,867.06	5,788.20	1,565.23		
Street lighting	1,824.00	13,060.88	3,928.55	848.25	1,382.64
Merchandise		5,892.61	1,167.57		
Miscellaneous	77.51	2,851.06	718.77	445.54	281.65
Total earnings	18,760.34	335,001.80	42,789.51	11,388.60	16,464.08
EXPENSES					
Cost of power supplied by H-E.P.C.	11,116.27	220,918.75	21,874.50	7,000.26	9,639.55
Substation operation		4,541.57			
Substation maintenance					
Distribution system, operation and maintenance	1,599.63	8,775.47	2,524.16	236.93	997.83
Line transformer maintenance	160.34	317.48	144.58	4.95	0.80
Meter maintenance	625.88	6,495.30	971.45	16.47	232.64
Consumers' premises expenses	50.75	2,967.44	1,326.75		12.20
Street lighting, operation and maintenance	387.20	4,367.85	1,081.08	225.82	215.62
Promotion of business		467.36	48.52		
Billing and collecting	1,062.36	11,228.63	3,637.20	524.63	559.90
General office, salaries and expenses	984.47	10,555.95	4,493.46	214.45	128.92
Undistributed expenses	76.36	2,137.71	11.45	2.36	36.40
Truck operation and maintenance		3,537.93			
Interest	6.93		13.10		13.35
Sinking fund and principal payments on debentures					
Depreciation	1,459.00	16,769.00	3,544.00	496.00	522.00
Other reserves					
Total operating costs and fixed charges	17,529.19	293,080.44	39,670.25	8,721.87	12,359.21
Net surplus	1,231.15	41,921.36	3,119.26	2,666.73	4,104.87
Net loss					
NUMBER OF CONSUMERS					
Domestic service	415	4,990	686	204	213
Commercial light service	63	714	163	51	58
Power service	6	126	23	8	7
Total	484	5,830	872	263	278

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Bobcaygeon	Bolton	Bothwell	Bowmanville	Bradford	Braeside	Brampton
1,080	796	704	4,315	1,373	420	7,124
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
13,700.96	8,002.04	3,576.63	50,804.89	12,976.75	2,501.22	73,213.88
8,493.73	3,913.28	2,860.61	17,007.40	11,351.48	581.34	27,042.02
1,049.19	3,291.18	1,707.68	70,199.42	10,536.58	5,929.61	27,287.15
.....	174.75	135.20	1,497.74	639.06	.....	3,348.51
2,676.16	1,137.95	1,351.64	4,539.44	1,404.00	420.00	7,302.89
.....	.....	.....	4,336.10	32.75	.....	.....
200.46	382.50	542.84	5,634.04	250.98	20.06	1,620.82
26,120.50	16,901.70	10,174.60	154,019.03	37,191.60	9,452.23	139,815.27
.....
9,902.27	8,585.60	6,222.10	96,221.77	18,528.24	5,438.09	100,428.43
1,882.82	.....	.....	42.75	.....	.....	.....
.....	.....	.....	.....	.....	.....	331.94
1,551.07	681.00	1,032.22	5,756.82	3,310.58	551.83	2,650.46
71.75	123.75	.....	80.50	148.96	46.69	36.87
131.66	787.47	153.48	1,116.94	505.41	91.66	343.85
.....	37.74	.....	2,654.28	71.21	.....	442.27
373.98	162.82	414.91	503.61	212.54	27.40	1,064.65
.....	.....	13.50	164.49	24.53	.....	.....
1,171.52	901.09	408.86	3,669.62	1,173.12	296.47	3,428.14
514.14	664.82	348.75	5,654.84	986.54	270.80	2,419.89
139.91	24.19	2.46	3,079.64	203.44	.....	429.87
.....	.....	.....	27.57	734.32	.....	1,012.12
1,613.12	.....	.....	.....	.....	184.71	.....
3,231.09	.....	.....	.....	.....	235.74	.....
2,932.00	1,006.00	580.00	4,985.00	1,961.00	194.00	5,395.00
.....
.....
23,515.33	12,974.48	9,176.28	123,957.83	27,859.89	7,337.39	117,983.49
2,605.17	3,927.22	998.32	30,061.20	9,331.71	2,114.84	21,831.78
.....
.....
435	225	212	1,517	390	108	2,003
89	54	68	199	96	9	310
5	15	10	32	20	3	68
529	294	290	1,748	506	120	2,381

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Brantford	Brantford Twp. V.A.	Brechin	Bridgeport	Brigden
Population	35,807		P.V.	P.V.	P.V.
EARNINGS					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	249,972.77	96,213.69	2,281.29	8,062.91	2,825.24
Commercial light service	124,392.48	13,974.91	1,328.17	2,704.09	2,219.71
Commercial power service	390,101.28	14,935.63	787.26	2,609.25	3,276.73
Municipal power	10,414.70				172.25
Street lighting	35,894.72	9,257.93	394.34	954.00	794.88
Merchandise					
Miscellaneous	11,301.62	1,095.40	18.26	109.89	201.04
Total earnings	822,077.57	135,477.56	4,809.32	14,440.14	9,489.85
EXPENSES					
Cost of power supplied by H-E.P.C.	624,483.26	78,263.82	1,826.67	8,664.90	5,446.57
Substation operation	13,516.09				
Substation maintenance	3,162.67	434.37			
Distribution system, operation and maintenance	12,178.58	4,508.37	261.39	638.76	803.12
Line transformer maintenance	3,246.71	923.46		290.49	52.48
Meter maintenance	14,310.20	1,797.99	24.57	6.50	156.68
Consumers premises expenses	24,711.11	18.87		31.22	
Street lighting, operation and main- tenance	7,084.22	2,657.05	47.00	183.58	159.57
Promotion of business	66.00				
Billing and collecting	14,886.11	4,317.09	291.69	884.98	390.05
General office, salaries and expenses	18,780.64	4,591.37	53.87	241.47	322.05
Undistributed expenses	967.79	1,284.16		12.81	15.93
Truck operation and maintenance		2,264.76			
Interest	107.50	6,108.71	12.02		
Sinking fund and principal payments on debentures		7,068.57	96.95		
Depreciation	29,227.00	8,671.00	230.00	1,019.00	731.00
Other reserves					
Total operating costs and fixed charges	766,727.88	122,909.59	2,844.16	11,973.71	8,077.45
Net surplus	55,349.69	12,567.97	1,965.16	2,466.43	1,412.40
Net loss					
NUMBER OF CONSUMERS					
Domestic service	9,458	2,589	58	253	139
Commercial light service	1,538	119	17	28	47
Power service	252	17	2	5	6
Total	11,248	2,725	77	286	192

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Brighton 1,947	Brockville 11,852	Brussels 772	Burford P.V.	Burgessville P.V.	Burlington 5,105	Caledonia 1,500
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
15,971.49	92,279.03	7,627.60	8,533.23	2,586.67	64,662.17	10,152.93
6,991.46	37,035.86	4,104.50	3,267.51	924.54	27,345.76	7,537.95
6,261.61	127,350.12	3,934.34	2,557.11	1,498.71	22,948.58	3,157.14
.....	8,390.72	.....	.....	.....	1,038.14	353.97
2,028.12	8,943.00	1,254.18	726.53	312.00	3,130.51	2,400.25
108.31	.....	.....	0.33	.....	.....	24.76
347.24	6,086.10	437.28	159.65	104.49	1,165.14	148.18
31,708.23	280,084.83	17,357.90	15,244.36	5,426.41	120,290.30	23,775.18
.....
19,095.56	203,280.93	11,272.12	11,717.61	3,197.72	60,607.61	13,531.21
.....	9,594.10	.....	.....	.....	.....	.....
.....	210.18	.....	.....	.....	.....	.....
2,682.92	5,551.43	827.92	922.49	340.46	4,153.09	1,275.81
283.27	197.12	57.06	5.30	17.15	513.82	60.92
531.14	3,084.47	269.27	134.30	434.63	1,421.05	192.13
.....	.....	.....	.....	.....	2,204.86	6.96
326.91	1,375.18	174.44	245.68	71.63	1,039.78	568.81
.....	.....	.....	.....	.....	.....	5.00
1,130.59	4,778.94	199.59	737.61	159.84	8,549.30	1,372.19
2,225.82	7,487.73	643.84	431.76	38.33	3,192.40	1,687.83
261.49	2,098.94	19.03	31.02	1.18	143.71	131.59
859.62	1,641.39	.....	.....	.....	412.12	596.48
.....	.....	.....	17.15	3.11	3,619.92	154.09
.....	.....	.....	.....	.....	6,409.13	500.00
1,323.00	8,499.00	1,270.00	867.00	272.00	5,608.00	1,426.00
.....
.....
28,720.32	247,799.41	14,733.27	15,109.92	4,536.05	97,874.79	21,509.02
2,987.91	32,285.42	2,624.63	134.44	890.36	22,415.51	2,266.16
.....
.....
562	3,634	283	269	67	1,509	503
125	467	70	51	19	175	115
10	86	9	5	3	24	11
697	4,187	362	325	89	1,708	629

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Campbell- ville P.V.	Canning- ton 818	Cardinal 1,711	Carleton Place 4,408	Cayuga 710
Population					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	2,170.78	8,228.26	12,632.00	32,736.09	5,742.58
Commercial light service	545.34	3,710.20	3,816.39	14,416.65	5,367.05
Commercial power service	391.70	3,530.62	456.42	33,280.74	6,063.70
Municipal power				1,736.97	395.67
Street lighting	400.00	1,338.76	1,271.00	5,065.73	1,546.98
Merchandise					12.70
Miscellaneous	108.52	452.55		2,329.85	251.72
Total earnings	3,616.34	17,260.39	18,175.81	89,566.03	19,380.40
EXPENSES					
Cost of power supplied by H-E.P.C.	2,711.48	9,359.43	12,876.23	57,833.89	8,792.09
Substation operation				102.32	
Substation maintenance					
Distribution system, operation and maintenance	7.75	1,026.32	905.45	6,506.20	1,229.38
Line transformer maintenance			110.81	403.33	106.50
Meter maintenance	1.50	201.77	125.78	1,420.89	434.63
Consumers premises expenses		246.78		226.38	
Street lighting, operation and main- tenance	36.89	148.31	164.34	636.67	291.04
Promotion of business		25.21		160.44	
Billing and collecting	123.75	1,059.81	788.31	3,152.38	1,108.74
General office, salaries and expenses	87.60	558.50	273.72	5,330.49	761.61
Undistributed expenses	0.81	32.51		660.84	236.23
Truck operation and maintenance				789.82	
Interest			15.41		
Sinking fund and principal payments on debentures			591.73		
Depreciation	134.00	748.00	759.00	3,921.00	1,330.00
Other reserves					
Total operating costs and fixed charges	3,103.78	13,406.64	16,610.78	81,144.65	14,290.22
Net surplus	512.56	3,853.75	1,565.03	8,421.38	5,090.18
Net loss					
NUMBER OF CONSUMERS					
Domestic service	64	302	440	1,248	205
Commercial light service	11	74	65	218	76
Power service	1	11	3	21	12
Total	76	387	508	1,487	293

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Chatham	Chatsworth	Chesley	Chester ville	Chippawa	Clifford	Clinton
20,263	392	1,772	1,241	1,504	436	2,409
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
143,156.47	3,668.30	14,977.50	7,777.50	10,597.97	4,452.98	23,700.99
137,519.06	2,963.15	6,108.38	6,147.45	2,986.42	3,691.16	11,707.86
155,490.96	844.38	7,656.91	11,709.65	338.03	1,019.06	6,640.18
8,942.36		904.44		730.87		1,700.27
29,485.51	682.00	2,426.04	1,288.50	3,178.16	968.97	2,675.08
10,205.71		59.77				129.90
4,211.00	66.25	366.19	297.76	177.78	125.73	985.73
489,011.07	8,224.08	32,499.23	27,220.86	18,009.23	10,257.90	47,540.01
256,882.52	5,165.55	24,330.32	18,101.71	9,607.13	6,124.95	32,213.62
9,751.03						823.56
15,527.74						
28,459.69	299.93	1,404.52	1,411.28	893.13	214.49	1,914.43
5,154.09		38.37	115.66	172.50		107.60
7,296.48	10.99	273.70	208.43	522.19	38.80	752.04
10,905.56		42.70	95.70	25.62	9.00	548.42
10,301.93	51.53	435.33	185.61	672.55	112.23	470.99
14,710.41						
18,488.16		1,157.40	864.36	1,121.89	343.58	1,810.11
27,358.71	376.35	1,061.30	475.15	1,033.82	155.90	2,996.13
11,357.11	9.31	107.73	123.65	140.04	19.48	233.03
13,765.97		104.63	430.36	782.93		457.94
9,180.22		56.37			151.24	2.00
30,543.49					399.21	
33,121.00	282.00	2,283.00	997.00	1,380.00	360.00	3,291.00
1,000.00						
503,804.11	6,195.66	31,295.37	23,008.91	16,351.80	7,928.88	45,620.87
	2,028.42	1,203.86	4,211.95	1,657.43	2,329.02	1,919.14
14,793.04						
5,394	126	521	286	449	147	716
995	40	96	71	48	39	150
157	1	27	6	3	2	21
6,546	167	644	363	500	188	887

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Cobden	Cobourg	Colborne	Coldwater	Collingwood
Population.....	691	6,459	1,049	645	6,729
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	5,383.05	64,767.09	11,714.23	5,537.45	49,814.78
Commercial light service.....	4,322.59	29,167.22	6,248.04	3,366.96	22,327.79
Commercial power service.....	4,781.52	44,077.21	1,231.08	3,944.94	41,904.40
Municipal power.....		2,215.51	224.12		1,776.44
Street lighting.....	822.00	6,447.78	1,524.00	1,021.00	5,442.58
Merchandise.....		437.44	2,641.37		4.44
Miscellaneous.....	61.68	1,730.98	208.26	140.96	1,425.03
Total earnings.....	15,370.84	148,843.23	23,791.10	14,011.31	122,695.46
EXPENSES					
Cost of power supplied by H-E.P.C.	10,016.16	86,330.65	10,414.92	2,878.99	80,669.21
Substation operation.....					616.84
Substation maintenance.....					
Distribution system, operation and maintenance.....	434.69	5,371.50	1,952.62	820.57	8,648.20
Line transformer maintenance.....		76.79	165.58	32.00	234.21
Meter maintenance.....	14.85	1,090.09	213.71	175.41	845.08
Consumers' premises expenses.....		547.89	1,258.30	64.18	
Street lighting, operation and maintenance.....	186.81	1,347.50	322.40	124.93	778.67
Promotion of business.....		22.02			
Billing and collecting.....	639.59	6,785.66	1,257.51	680.96	3,271.86
General office, salaries and expenses	130.21	5,560.03	989.07	392.98	2,378.19
Undistributed expenses.....		2,232.00	223.78	85.93	570.33
Truck operation and maintenance.....		2,444.70	870.26		1,507.85
Interest.....	15.09	722.93	186.67		
Sinking fund and principal payments on debentures.....	183.13	6,541.89	977.24		
Depreciation.....	329.00	7,909.00	717.00	640.00	4,127.00
Other reserves.....					150.00
Total operating costs and fixed charges.....	11,949.53	127,072.65	19,549.06	5,895.95	103,797.44
Net surplus.....	3,421.31	21,770.58	4,242.04	8,115.36	18,898.02
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	224	1,842	342	176	2,020
Commercial light service.....	68	269	86	53	337
Power service.....	6	65	6	4	62
Total.....	298	2,176	434	233	2,419

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Comber		Cookstown		Cottam		Courtright		Creemore		Dashwood		Delaware	
P.V.		P.V.		P.V.		455		750		P.V.		P.V.	
\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.
2,924.91		3,864.12		4,216.39		2,678.13		6,296.41		4,103.68		3,476.61	
3,199.47		2,019.51		2,353.33		1,213.86		2,767.85		1,919.19		1,797.30	
3,833.36		1,394.52		1,049.52				1,327.44		1,109.20			
						580.32							
857.00		870.00		555.00		630.00		768.00		486.98		296.00	
200.59		352.93		86.61		241.76		263.81		173.47		82.67	
11,015.33		8,501.08		8,260.85		5,344.07		11,423.51		7,792.52		5,652.58	
5,941.41		3,915.03		4,720.70		3,190.81		6,805.49		6,185.00		3,404.62	
1,242.76		309.08		560.75		513.52		581.94		733.69		46.13	
251.02				14.01		69.61				29.17		15.57	
208.37		122.23		27.95		55.54		127.62		13.44		39.57	
								34.71				3.30	
122.18		85.28		78.00		158.36		131.25		36.75		2.88	
						3.36							
431.65		293.40		534.09		178.33		474.67		261.79		243.59	
735.01		83.58		269.13		46.26		115.37		218.30		108.15	
24.50		11.33		12.55		6.08				1.67		1.13	
				0.66		23.71							
538.00		855.00		419.00		236.00		628.00		252.00		289.00	
9,494.90		5,674.93		6,636.84		4,481.58		8,899.05		7,731.81		4,153.94	
1,520.43		2,826.15		1,624.01		862.49		2,524.46		60.71		1,498.64	
151		141		162		127		210		122		82	
56		39		32		25		56		29		16	
7		4		5		1		3		3			
214		184		199		153		269		154		98	

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Delhi	Deseronto	Dorchester	Drayton	Dresden
Population.....	2,410	1,473	P.V.	575	1,965
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	21,917.53	14,149.37	4,693.78	5,763.32	11,053.53
Commercial light service.....	18,576.55	5,930.46	1,445.87	3,438.26	10,484.55
Commercial power service.....	6,950.72	3,693.17	1,189.68	2,148.90	13,909.47
Municipal power.....	1,124.14	1,381.98			995.61
Street lighting.....	3,553.30	2,071.72	913.34	850.00	2,252.02
Merchandise.....	828.19	803.60			1,442.43
Miscellaneous.....	1,031.64	217.93	252.70	109.73	1,831.41
Total earnings.....	53,982.07	28,248.23	8,495.37	12,310.21	41,969.02
EXPENSES					
Cost of power supplied by H-E.P.C.	22,740.24	12,356.97	4,312.62	6,176.21	22,744.68
Substation operation.....		94.08			10.65
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,487.60	1,900.79	109.89	691.25	3,507.27
Line transformer maintenance.....	178.42	44.89	0.24	206.60	248.89
Meter maintenance.....	1,065.05	273.27	279.59	246.72	800.70
Consumers' premises expenses.....	525.38		241.43		84.08
Street lighting, operation and maintenance.....	409.47	434.68	151.92	399.72	717.85
Promotion of business.....					
Billing and collecting.....	1,971.54	983.88	266.60	708.32	1,423.39
General office, salaries and expenses	2,260.52	2,007.72	163.71	226.11	1,541.72
Undistributed expenses.....	819.61	258.34	1.72	77.18	338.99
Truck operation and maintenance...	1,476.25	575.05			1,839.35
Interest.....	2,026.92		5.12	4.15	15.53
Sinking fund and principal payments on debentures.....	4,130.92				
Depreciation.....	2,554.00	865.00	405.00	524.00	1,523.00
Other reserves.....					
Total operating costs and fixed charges.....	42,645.92	19,794.67	5,937.30	9,260.26	34,796.10
Net surplus.....	11,336.15	8,453.56	2,558.07	3,049.95	7,172.92
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	770	443	175	186	578
Commercial light service.....	223	59	33	54	147
Power service.....	22	13	2	7	19
Total.....	1,015	515	210	247	744

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Drumbo P.V.	Dublin P.V.	Dundalk 771	Dundas 6,089	Dunnville 3,997	Durham 2,158	Dutton 818
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,091.81	2,604.50	6,047.53	38,772.62	18,964.58	13,238.75	4,175.86
2,695.37	1,908.14	4,911.13	22,384.22	18,349.28	7,852.70	3,034.68
823.33	1,922.37	3,698.99	50,674.98	22,749.56	6,518.82	4,226.08
.....	.....	.....	722.95	2,527.66	963.46	.....
611.00	583.00	1,199.00	5,942.64	4,225.22	1,721.04	1,037.94
.....	.....	.....	.....	.....	46.70	.....
271.88	55.67	493.94	986.16	1,087.75	186.25	279.28
.....
8,493.39	7,073.68	16,350.59	119,483.57	67,904.05	30,527.72	12,753.84
.....
4,960.10	4,131.37	9,157.29	87,088.65	42,036.93	17,233.94	8,403.87
.....	.....	.....	767.21	656.32	.....	.....
.....
300.05	319.19	1,549.33	8,429.18	6,554.32	2,636.94	1,110.57
1.25	11.26	.....	895.11	528.18	292.31	25.28
9.45	51.52	301.65	2,191.13	1,894.60	414.64	15.94
.....	.....	.....	78.65	.....	575.99	16.15
.....
65.70	142.68	238.15	1,216.73	1,428.01	451.72	249.49
.....
439.13	251.50	960.70	3,025.58	1,995.12	1,232.92	1,183.18
104.15	219.15	252.70	3,962.70	2,505.19	1,171.07	211.02
1.66	6.49	45.82	895.67	673.04	210.49	34.85
.....	.....	.....	2,286.92	409.90	368.47	.....
.....	.....	.....	.....	67.79	40.39	4.50
.....	.....	.....	.....	856.86	.....	.....
.....
355.00	351.00	483.00	4,501.00	3,227.00	1,900.00	612.00
.....
.....
6,236.49	5,484.16	12,988.64	115,338.53	62,833.26	26,528.88	11,866.85
.....
2,256.90	1,589.52	3,361.95	4,145.05	5,070.79	3,998.84	886.99
.....
.....
.....
116	69	243	1,800	1,216	548	253
37	34	79	256	298	122	66
2	2	8	46	34	18	10
.....
155	105	330	2,102	1,548	688	329

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	East York Twp. V.A.	Elmira	Elmvale P.V.	Elmwood P.V.
Population		2,330		
EARNINGS				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	472,336.93	23,465.86	5,903.29	1,924.67
Commercial light service	50,808.75	14,887.23	3,803.68	1,444.55
Commercial power service	70,067.98	31,694.00	3,640.64	3,064.80
Municipal power	5,513.54	2,885.14	304.49	
Street lighting	35,695.43	2,123.60	1,250.37	593.00
Merchandise				
Miscellaneous	1,664.12	1,929.64	85.05	113.18
Total earnings	636,086.75	76,985.47	14,987.52	7,140.20
EXPENSES				
Cost of power supplied by H-E.P.C. ...	376,989.13	48,180.29	8,079.13	3,907.83
Substation operation	6,307.90	510.98		
Substation maintenance				
Distribution system, operation and maintenance	12,352.09	4,443.96	1,126.79	202.07
Line transformer maintenance	4,113.05	426.57		
Meter maintenance	10,315.95	657.81	201.60	19.00
Consumers' premises expenses	14,241.54	184.88	28.55	
Street lighting, operation and main- tenance	8,387.88	194.55	168.78	83.01
Promotion of business	134.60	149.92		
Billing and collecting	27,345.91	1,600.86	544.69	
General office, salaries and expenses ..	22,945.88	2,042.40	301.99	421.60
Undistributed expenses		901.63	8.10	
Truck operation and maintenance		505.49		
Interest	1,503.73	112.91		
Sinking fund and principal payments on debentures		1,091.74		
Depreciation	35,519.00	4,422.00	960.00	267.00
Other reserves				
Total operating costs and fixed charges	520,156.66	65,425.99	11,419.63	4,900.51
Net surplus	115,930.09	11,559.48	3,567.89	2,239.69
Net loss				
NUMBER OF CONSUMERS				
Domestic service	15,099	678	223	97
Commercial light service	611	142	63	22
Power service	83	28	9	3
Total	15,793	848	295	122

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Elora 1,357	Embro 485	Erieau 341	Erie Beach 50	Essex 2,253	Etobicoke Twp. V.A.	Exeter 2,364
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
12,116.84	5,954.54	7,223.11	2,110.57	14,461.07	446,127.89	29,284.25
5,668.50	2,147.20	2,803.09	340.17	13,092.08	85,434.23	14,216.21
8,218.91	2,876.29	5,793.32		9,358.81	118,243.85	7,303.37
40.86				1,471.21	12,146.61	789.72
1,727.00	617.60	718.50	210.06	2,265.37	31,222.31	2,885.10
						502.07
494.87	80.75	66.64	31.79	1,258.85	2,691.27	1,549.76
28,266.98	11,676.38	16,604.66	2,692.59	41,907.39	695,866.16	56,530.48
18,560.91	6,412.24	8,211.71	1,303.50	25,896.75	405,291.75	33,918.79
					123.65	
2,816.79	417.05	813.51	174.94	2,320.00	20,102.84	4,972.62
44.11	4.64	59.15		588.51	7,703.27	45.05
141.42	195.88	467.28	164.00	825.14	7,511.90	320.21
	109.05	577.72	8.07	462.77	15,871.70	630.26
357.60	130.48	178.42	48.47	565.93	4,526.35	901.55
23.42				14.00		
1,305.11	655.64	685.67	224.58	1,610.58	35,586.55	3,007.07
562.59	137.11	616.53	285.19	3,851.13	22,644.03	3,193.79
472.48	15.83	3.61	0.58	871.11		172.37
458.15				766.70		823.65
31.47	5.00	23.24	19.38	431.04	12,983.72	
				1,122.77	17,786.82	
1,072.00	521.00	868.00	163.00	3,432.00	32,793.00	3,134.00
25,846.05	8,603.92	12,504.84	2,391.71	42,758.43	582,925.58	51,119.36
2,420.93	3,072.46	4,099.82	300.88		112,940.58	5,411.12
				851.04		
402	147	253	108	709	11,367	752
72	36	27	5	149	717	155
8	4	4		22	129	22
482	187	284	113	880	12,213	929

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Fergus	Finch	Flesherton	Fonthill	Forest
Population.....	3,195	390	447	1,182	1,709
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	30,035.50	3,897.88	3,431.53	12,671.59	19,717.69
Commercial light service.....	11,202.93	3,040.63	2,512.28	3,224.61	10,767.59
Commercial power service.....	26,151.08	2,060.41	1,332.01	1,323.48	5,498.88
Municipal power.....	1,075.23			189.38	1,277.36
Street lighting.....	2,368.72	507.00	730.00	1,748.60	2,798.20
Merchandise.....					389.13
Miscellaneous.....	557.33	195.98	304.92	32.12	1,153.27
Total earnings.....	71,390.79	9,701.90	8,310.74	19,189.78	41,602.12
EXPENSES					
Cost of power supplied by H-E.P.C.	51,165.53	5,365.01	4,342.45	9,887.87	25,773.48
Substation operation.....	59.04				
Substation maintenance.....					
Distribution system, operation and maintenance.....	4,036.30	209.74	473.69	2,065.71	5,364.03
Line transformer maintenance.....	808.31			56.62	83.38
Meter maintenance.....	800.33	155.36	206.05	232.75	186.08
Consumers' premises expenses.....	30.95			448.32	1,751.86
Street lighting, operation and maintenance.....	1,230.87	150.19	89.35	145.13	683.66
Promotion of business.....	13.61				
Billing and collecting.....	1,457.72	366.35		946.33	1,389.04
General office, salaries and expenses	2,039.04	153.00	609.75	851.49	2,665.90
Undistributed expenses.....	267.12			22.00	247.18
Truck operation and maintenance...	931.45				157.04
Interest.....					
Sinking fund and principal payments on debentures.....					
Depreciation.....	3,687.00	517.00	337.00	1,133.00	1,605.00
Other reserves.....					
Total operating costs and fixed charges.....	66,527.27	6,916.65	6,058.29	15,789.22	39,906.65
Net surplus.....	4,863.52	2,785.25	2,252.45	3,400.56	1,695.47
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	923	134	147	375	575
Commercial light service.....	128	37	52	43	136
Power service.....	17	4	2	6	21
Total.....	1,068	175	201	424	732

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1949

Forest Hill	*Frankford	Galt	Georgetown	Glencoe	Goderich
15,629	1,242	16,952	3,150	918	4,906
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
244,649.48	3,235.74	148,077.05	40,682.65	5,788.31	53,329.21
48,627.90	1,708.62	74,474.60	14,610.70	8,643.35	25,778.81
5,746.17	355.08	193,553.67	41,508.57	2,942.31	22,306.18
446.70		5,436.89	1,539.81	1,187.35	3,352.15
12,127.09	314.18	22,195.00	3,376.27	2,411.46	5,339.83
		13,893.44			830.57
8,028.94		4,824.87	588.95	1,118.55	1,359.68
319,626.28	5,613.62	462,455.52	102,306.95	22,091.33	112,296.43
187,624.91	1,938.42	320,459.26	66,815.74	10,261.53	71,843.79
1,287.76		9,130.16			1,352.61
		1,317.10	682.31		
12,236.81	68.35	15,008.26	3,549.88	926.47	6,095.87
1,246.51		344.44	366.32	84.46	135.37
2,765.59	63.84	2,524.93	1,028.84	276.19	1,330.82
17,270.84		1,395.35	688.23	87.05	903.27
1,558.80	8.35	2,977.21	505.13	252.81	1,321.41
		977.21			
8,273.12	505.11	6,313.72	3,233.72	787.41	4,796.45
13,053.68	314.63	15,200.74	2,829.33	1,054.10	3,671.12
1,350.80		8,040.98	1,671.71	138.07	2,370.23
5,187.97		1,798.84	2,709.51	325.28	2,133.93
5,946.35	101.37			3.25	533.97
19,716.20	666.66				2,453.67
11,555.00	220.00	25,686.00	4,675.00	1,055.00	6,003.00
		349.18			
289,074.34	3,886.73	411,523.38	88,755.72	15,251.62	104,945.51
30,551.94	1,726.89	50,932.14	13,551.23	6,839.71	7,350.92
4,276	334	5,052	1,122	280	1,614
372	76	590	167	90	301
39	7	160	33	12	44
4,687	417	5,802	1,322	382	1,959

*4 Months operations.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Grand Valley	Granton	Gravenhurst	Grimsby
Population.....	649	P.V.	3,431	2,457
EARNINGS				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,926.21	2,616.51	23,535.67	20,767.82
Commercial light service.....	3,271.74	1,350.03	13,973.18	13,896.28
Commercial power service.....	3,595.61	205.97	18,311.99	10,479.91
Municipal power.....			1,280.81	2,845.13
Street lighting.....	932.00	370.00	1,977.00	3,692.49
Merchandise.....			56.22	
Miscellaneous.....	363.16	172.12	867.64	1,048.89
Total earnings.....	13,088.72	4,714.63	60,002.51	52,730.52
EXPENSES				
Cost of power supplied by H-E.P.C. . .	7,942.42	3,167.33	37,036.11	29,553.10
Substation operation.....			14.20	
Substation maintenance.....				
Distribution system, operation and maintenance.....	974.08	273.44	5,432.08	1,647.71
Line transformer maintenance.....		27.53	93.82	
Meter maintenance.....	116.20	294.09	744.30	144.83
Consumers' premises expenses.....		15.66	13.68	760.09
Street lighting, operation and maintenance.....	118.03	76.42	277.13	588.26
Promotion of business.....				
Billing and collecting.....	839.58	378.37	2,101.16	2,456.97
General office, salaries and expenses..	349.54	156.78	1,786.16	1,892.28
Undistributed expenses.....	19.78	1.06	323.59	40.45
Truck operation and maintenance.....			770.49	
Interest.....				
Sinking fund and principal payments on debentures.....				
Depreciation.....	659.00	377.00	2,148.00	2,592.00
Other reserves.....				
Total operating costs and fixed charges.....	11,018.63	4,767.68	50,740.72	39,675.69
Net surplus.....	2,070.09		9,261.79	13,054.83
Net loss.....		53.05		
NUMBER OF CONSUMERS				
Domestic service.....	213	90	919	819
Commercial light service.....	60	30	146	150
Power service.....	11	1	23	21
Total.....	284	121	1,088	990

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Guelph	Hagersville	Hamilton	Hanover	Harriston	Harrow	Hastings
25,962	1,624	181,623	3,646	1,449	1,343	803
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
191,764.24	9,638.41	1,207,375.88	36,629.56	12,811.62	19,441.32	7,533.12
69,730.95	8,448.47	631,368.43	12,664.02	8,188.99	9,397.87	5,208.45
179,019.34	25,354.24	3,222,547.95	33,171.99	12,481.44	4,383.09	233.07
18,002.21	154.11	102,548.97	283.45	445.25		
22,936.14	2,245.05	146,757.65	2,535.00	1,577.81	1,506.22	1,697.69
		23,592.13		231.19	77.98	
387.19	1,267.95	159,913.98	2,526.39	439.98	352.09	217.78
481,840.07	47,108.23	5,494,104.99	87,810.41	36,176.28	35,158.57	14,890.11
373,744.89	34,323.04	*4,327,526.67	52,429.58	23,294.81	24,807.61	6,509.49
		138,565.52				
7,023.42		16,728.68				
14,413.38	5,714.54	85,216.27	6,534.08	2,629.13	2,212.59	1,278.08
548.44	666.88	15,811.37	289.73	107.41	36.96	24.59
6,077.83	667.31	53,870.33	834.72	224.48	1,129.47	598.00
1,080.89	5.20	51,082.43		631.46	39.99	
4,728.50	442.05	33,539.49	377.32	310.34	311.87	557.36
77.50		23,316.44			10.00	
11,011.41	1,596.59	169,738.74	2,563.19	1,625.56	2,610.49	911.82
13,452.06	1,332.88	108,030.05	2,077.98	773.29	144.32	311.54
2,355.12	539.54	27,164.07	447.29	124.36	7.90	3.15
	402.21		2,009.39	544.64		
36.88		5,320.84			2.80	260.76
		174,750.00				1,496.51
31,524.00	1,283.00	231,203.89	3,833.00	1,806.00	1,164.00	1,045.00
466,074.32	46,973.24	5,461,864.79	71,396.28	32,071.48	32,478.00	12,996.30
15,765.75	134.99	32,240.20	16,414.13	4,104.80	2,680.57	1,893.81
6,646	468	50,692	1,040	423	424	308
817	143	6,398	174	115	101	59
172	21	1,247	34	16	8	3
7,635	632	58,337	1,248	554	533	370

*Includes 1949 cost adjustment.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Havelock	Hensall	Hespeler	Highgate	Holstein
Population.....	1,166	677	3,614	340	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,384.21	7,326.06	28,597.39	2,350.36	1,551.92
Commercial light service.....	3,698.46	3,678.77	11,281.00	1,108.87	495.89
Commercial power service.....	1,862.73	5,213.77	82,413.71	2,186.66	615.85
Municipal power.....		645.85	2,172.74		
Street lighting.....	1,569.00	1,072.47	4,281.00	476.50	75.00
Merchandise.....					
Miscellaneous.....	659.20	394.25	2,371.73	260.92	150.00
Total earnings.....	15,173.60	18,331.17	131,117.57	6,383.31	2,888.66
EXPENSES					
Cost of power supplied by H-E.P.C.	8,264.41	11,351.98	91,036.26	3,982.44	1,557.06
Substation operation.....			1,426.35		
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,301.83	999.75	7,953.72	241.82	110.03
Line transformer maintenance.....		25.13	249.88	5.49	
Meter maintenance.....	722.29	65.60	327.19	232.11	
Consumers' premises expenses.....			463.07	2.99	
Street lighting, operation and maintenance.....	693.18	132.58	758.54	168.63	48.00
Promotion of business.....					
Billing and collecting.....	1,107.54	666.17	1,840.15	324.14	
General office, salaries and expenses	366.64	444.09	2,427.55	208.37	387.24
Undistributed expenses.....		48.37	1,423.51	6.35	
Truck operation and maintenance.....			1,395.02	63.88	
Interest.....		22.45	257.92		
Sinking fund and principal payments on debentures.....			1,819.56		
Depreciation.....	823.00	763.00	4,768.00	387.00	122.00
Other reserves.....					
Total operating costs and fixed charges.....	13,278.89	14,519.12	116,146.72	5,623.22	2,224.33
Net surplus.....	1,894.71	3,812.05	14,970.85	760.09	664.33
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	325	231	973	114	70
Commercial light service.....	65	62	114	32	16
Power service.....	2	18	32	7	2
Total.....	392	311	1,119	153	88

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Humberstone	Huntsville	Ingersoll	Iroquois	Jarvis	Kemptville
3,411	3,180	6,234	1,029	588	1,465
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
17,378.63	25,992.69	47,169.53	10,769.70	3,619.63	13,668.43
8,504.09	21,223.17	25,529.96	4,081.73	3,105.95	7,845.99
7,551.97	21,974.26	55,234.10	1,075.75	4,153.83	5,317.11
.....	914.01	5,174.38	1,006.70	.....	.....
2,011.22	3,380.00	5,034.40	1,361.01	858.00	1,871.90
.....	102.14	.....	.....	.....	.....
69.97	1,096.89	1,259.96	389.83	427.07	417.83
35,515.88	74,683.16	139,402.33	18,684.72	12,164.48	29,121.26
.....
19,819.98	47,983.29	102,233.49	9,934.23	6,879.38	15,965.95
.....	829.40	571.46	.....	.....	.....
.....
3,628.94	6,383.82	7,643.98	1,651.21	114.55	3,323.37
144.65	199.98	312.84	187.96	4.07	149.59
2,121.07	1,079.01	2,255.49	351.94	347.44	314.16
.....	5.96	1,213.79	155.20	.....	207.85
.....
537.96	903.33	910.71	319.75	54.64	300.54
.....	.....	96.84	.....	.....	.....
1,850.05	2,191.03	4,134.79	1,418.84	746.28	1,359.64
1,447.62	2,606.94	5,142.51	1,527.52	65.52	682.05
280.09	896.22	1,642.98	181.19	8.10	252.61
865.61	835.54	2,279.29	472.89	.....	519.47
.....	.....	296.93	.....	.....	.....
.....
2,468.00	1,592.00	6,251.00	630.00	806.00	1,747.00
.....
.....
33,163.97	65,506.52	134,986.10	16,830.73	9,025.98	24,822.23
2,351.91	9,176.64	4,416.23	1,853.99	3,138.50	4,299.03
.....
.....
.....
913	833	1,765	341	166	454
171	162	251	61	47	90
15	23	52	6	4	7
1,099	1,018	2,068	408	217	551

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Kincardine	Kingston	Kingsville	Kirkfield
Population.....	2,857	31,375	2,489	P.V.
EARNINGS				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	24,417.70	284,300.49	20,646.02	1,238.84
Commercial light service.....	12,276.83	161,934.92	13,636.94	1,559.70
Commercial power service.....	18,346.94	198,181.18	5,651.28	
Municipal power.....	1,455.48	16,991.98	953.63	
Street lighting.....	4,954.47	22,794.53	2,901.96	432.00
Merchandise.....	22.69			
Miscellaneous.....	685.48	13,836.61	1,658.74	90.00
Total earnings.....	62,159.59	698,039.71	45,448.57	3,320.54
EXPENSES				
Cost of power supplied by H-E.P.C....	36,620.27	488,002.05	26,513.42	1,788.51
Substation operation.....	1,215.48	15,845.79		
Substation maintenance.....		3,409.70		
Distribution system, operation and maintenance.....	2,173.43	27,338.20	3,485.77	259.57
Line transformer maintenance.....	161.62	979.95	437.81	
Meter maintenance.....	38.44	10,127.05	1,004.14	7.52
Consumers' premises expenses.....	1,011.99			
Street lighting, operation and maintenance.....	761.43	5,576.50	740.69	49.51
Promotion of business.....		791.01		
Billing and collecting.....	1,582.71	22,670.50	2,314.32	159.54
General office, salaries and expenses..	1,229.21	33,715.87	2,473.52	74.61
Undistributed expenses.....	303.69	31,167.00	873.55	
Truck operation and maintenance.....	957.89	10,533.04	583.70	
Interest.....			749.21	
Sinking fund and principal payments on debentures.....			1,715.70	
Depreciation.....	3,716.00	31,538.44	1,948.00	228.00
Other reserves.....		6,268.36		
Total operating costs and fixed charges.....	49,772.16	687,963.46	42,839.83	2,567.26
Net surplus.....	12,387.43	10,076.25	2,608.74	753.28
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	855	9,466	806	46
Commercial light service.....	156	1,191	117	24
Power service.....	24	198	25	
Total.....	1,035	10,855	948	70

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Kitchener 40,640	Lakefield 1,667	Lambeth P.V.	Lanark 731	Lancaster 550	La Salle 1,526	Leamington 7,221
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
350,619.81	13,486.58	5,763.19	5,562.96	2,794.90	19,227.85	42,469.07
182,499.33	9,356.59	1,506.88	4,086.18	1,941.62	5,684.55	27,565.89
560,304.08	7,998.22	667.90	1,729.55		780.79	34,685.60
40,947.42		508.07				2,613.71
39,546.60	1,895.80	763.00	702.00	530.00	924.00	8,364.95
4,210.44	842.31	20.80	15.06	60.33	9.98	822.20
1,178,127.68	33,579.50	9,229.84	12,095.75	5,326.85	26,627.17	116,521.42
813,949.89	17,749.50	6,479.92	6,227.02	3,119.27	16,579.69	81,819.70
17,104.66						968.50
8,149.88						
32,112.80	1,456.89	855.45	365.39	432.77	1,329.35	1,968.90
4,987.07		177.65			362.01	1,729.97
15,712.09	193.95	288.85	65.41	76.87	672.00	1,007.56
2,843.30		21.23			433.21	9.16
49,193.46	315.69	124.60	99.56	88.02	112.46	2,743.21
739.72					7.61	108.95
22,627.23	1,946.98	635.56	457.68	240.08	1,172.90	5,250.37
33,142.59	1,733.72	68.00	185.72	271.38	498.25	4,854.94
997.63	159.96	2.36			37.27	1,518.63
	829.51					2,641.98
2,196.02	303.59	45.29			536.34	
24,900.00	2,261.77					
65,728.00	1,194.00	753.00	592.00	471.00	1,833.00	7,430.00
1,094,384.34	28,145.56	9,451.91	7,992.78	4,699.39	23,574.09	112,051.87
83,743.34	5,433.94		4,102.97	627.46	3,053.08	4,469.55
		222.07				
10,518	462	188	224	135	413	2,033
1,298	92	28	52	34	28	366
348	12	7	3		3	51
12,164	566	223	279	169	444	2,450

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Lindsay	Listowel	London	London Twp. V.A.	Long Branch
Population.....	8,904	2,929	91,021		6,677
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	82,332.12	29,411.10	728,497.57	24,333.48	60,971.95
Commercial light service.....	50,602.01	18,283.62	294,301.65	2,991.49	14,808.44
Commercial power service.....	44,142.20	21,318.94	501,353.30	1,417.46	27,450.56
Municipal power.....	2,892.77	1,304.51	96,738.66		2,355.25
Street lighting.....	7,732.84	4,782.20	49,652.70	1,335.50	7,389.88
Merchandise.....	878.24	50.96	16,526.88		
Miscellaneous.....	873.14	842.31	30,867.61	246.42	1,965.87
Total earnings.....	189,453.32	75,993.64	1,717,938.37	30,324.35	114,941.95
EXPENSES					
Cost of power supplied by H-E.P.C.	119,587.12	54,597.23	1,070,962.25	19,485.71	63,248.47
Substation operation.....		792.42	64,623.81		
Substation maintenance.....					
Distribution system, operation and maintenance.....	4,080.64	2,848.95	38,042.99	2,264.39	4,185.48
Line transformer maintenance.....	1,558.86	323.88	9,909.84	356.44	1,023.56
Meter maintenance.....	2,261.37	460.53	43,696.15	643.43	621.50
Consumers' premises expenses.....	923.40	29.45	97,474.24	404.33	334.33
Street lighting, operation and main- tenance.....	929.44	830.63	17,570.59	314.95	967.32
Promotion of business.....	79.63		1,434.37		
Billing and collecting.....	6,565.23	2,773.79	43,729.03	1,695.04	7,887.53
General office, salaries and expenses	11,824.36	2,177.25	93,391.35	679.67	5,259.17
Undistributed expenses.....	4,669.58	338.20	1,423.59	16.94	33.33
Truck operation and maintenance...	2,873.55	385.22	3,628.90		
Interest.....			7,420.64	22.23	
Sinking fund and principal payments on debentures.....					
Depreciation.....	9,085.00	3,312.00	105,419.30	1,073.00	4,891.00
Other reserves.....			15,081.93		
Total operating costs and fixed charges.....	164,438.18	68,869.55	1,613,808.98	26,956.13	88,451.69
Net surplus.....	25,015.14	7,124.09	104,129.39	3,368.22	26,490.26
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	2,617	972	23,822	671	2,121
Commercial light service.....	403	192	2,402	19	211
Power service.....	82	34	488	4	23
Total.....	3,102	1,198	26,712	694	2,355

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Lucan 850	Lucknow 963	Lynden P.V.	Madoc 1,169	Markdale 839	Markham 1,389	Marmora 1,005
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,238.45	8,234.81	4,216.27	9,491.86	5,780.37	14,457.20	7,222.00
3,402.68	4,883.91	859.60	6,913.24	4,485.96	5,702.76	3,769.31
1,078.63	10,936.12	1,380.35	3,946.39	2,954.55	3,409.51	604.28
.....	394.65	.....	.....	211.68	390.73	.....
1,433.16	2,011.35	474.80	1,872.00	959.00	1,663.00	1,298.00
.....
198.96	653.64	137.37	233.04	186.96	542.25	270.62
.....
15,351.88	27,114.48	7,068.39	22,456.53	14,578.52	26,165.45	13,164.21
.....
9,180.26	15,774.97	4,848.99	14,354.20	7,733.85	14,476.18	6,074.14
.....
.....
544.57	2,124.49	386.72	2,159.37	950.31	1,226.01	1,878.71
13.84	.....	5.00	1.75	.....	208.29	.....
118.48	245.27	99.44	922.56	325.96	398.51	365.08
682.02	.....	.....	.....	268.97	.....	.....
.....
282.43	281.75	94.73	615.78	127.83	249.73	352.43
.....
956.03	1,522.04	260.99	1,244.10	.....	1,229.55	1,128.75
392.63	912.48	268.38	407.16	930.08	444.90	639.95
59.90	117.76	35.25	12.36	12.07	66.58	96.53
.....	374.71	.....	.....	.....	.....	.....
67.46	34.52	.....	.....	26.99	.....	.....
.....
.....
1,092.00	1,264.00	535.00	885.00	1,092.00	1,532.00	824.00
.....
.....
13,389.62	22,651.99	6,534.50	20,602.28	11,468.06	19,831.75	11,359.59
.....
1,962.26	4,462.49	533.89	1,854.25	3,110.46	6,333.70	1,804.62
.....
.....
.....
.....
238	360	121	367	250	425	295
51	109	15	100	79	83	50
4	12	3	6	10	11	1
.....
293	481	139	473	339	519	346

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Martin- town P.V.	Maxville	Meaford	Merlin	Merrittton
Population		812	2,923	P.V.	3,868
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	1,693.55	5,141.50	24,369.60	2,964.46	30,267.40
Commercial light service	1,516.76	3,328.40	15,090.17	2,776.38	7,380.60
Commercial power service	108.73		17,183.25	1,825.47	240,603.60
Municipal power			1,091.17		2,053.82
Street lighting	253.00	1,076.50	3,492.56	819.00	4,571.04
Merchandise			109.95	11.57	
Miscellaneous	96.48	296.00	1,247.90	1,033.34	3,648.17
Total earnings	3,668.52	9,842.40	62,584.60	9,430.22	288,524.63
EXPENSES					
Cost of power supplied by H-E.P.C.	1,863.57	5,458.98	36,026.26	4,733.94	249,321.65
Substation operation					1,226.22
Substation maintenance					
Distribution system, operation and maintenance	290.97	818.22	4,110.25	455.77	7,141.86
Line transformer maintenance		179.82	427.28	14.02	387.71
Meter maintenance	100.72	327.80	834.68	632.95	1,194.14
Consumers' premises expenses			214.74	79.09	142.36
Street lighting, operation and main- tenance	55.00	410.75	568.74	121.82	1,194.17
Promotion of business				14.00	
Billing and collecting	358.44	366.45	1,770.25	396.55	4,234.44
General office, salaries and expenses	84.44	96.40	1,578.78	592.25	5,209.57
Undistributed expenses		41.06	470.32	1.83	2,767.72
Truck operation and maintenance			539.97		1,064.67
Interest				28.27	
Sinking fund and principal payments on debentures					
Depreciation	129.00	480.00	2,810.00	1,012.00	6,580.00
Other reserves					
Total operating costs and fixed charges	2,882.14	8,179.48	49,351.27	8,082.49	280,464.51
Net surplus	786.38	1,662.92	13,233.33	1,347.73	8,060.12
Net loss					
NUMBER OF CONSUMERS					
Domestic service	69	206	927	149	1,214
Commercial light service	27	51	187	63	83
Power service	1		26	4	22
Total	97	257	1,140	216	1,319

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Midland	Mildmay	Millbrook	Milton	Milverton	Mimico	Mitchell
7,078	804	771	2,316	1,060	10,164	1,799
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
56,577.94	6,460.64	7,852.74	22,394.35	8,673.51	90,844.13	21,454.16
24,338.33	4,047.60	3,583.78	10,865.11	5,807.96	20,198.62	9,976.65
84,101.87	1,648.97	1,157.53	37,470.84	5,374.83	16,818.39	11,090.32
3,040.77	237.09			394.95	7,204.02	1,468.43
6,560.00	693.85	941.92	2,310.52	947.40	8,757.45	2,670.50
4,474.97			86.13			2,141.03
7,476.18	144.65	122.78	1,465.46	154.95	3,123.05	1,455.60
186,570.06	13,232.80	13,658.75	74,592.41	21,353.60	146,945.66	50,256.69
112,312.57	7,106.11	6,441.31	48,992.60	15,351.79	86,401.94	30,735.36
4,325.70						1,218.93
206.93			241.83		769.81	
6,241.78	1,145.73	1,083.03	5,054.57	1,374.70	13,165.43	2,366.15
1,484.89		233.06	69.45	88.00	151.97	249.37
1,040.11	142.77	389.98	150.06	419.21	1,347.59	1,041.64
161.30	13.68		401.06	118.91	1,484.46	1,637.59
1,907.67	235.45	397.87	677.43	111.39	1,900.39	910.93
83.75			134.97			
2,530.01		1,218.57	2,534.54	1,024.26	3,904.49	1,439.10
3,021.96	914.77	1,104.12	2,183.20	710.40	6,366.73	1,698.64
4,670.43		3.00	638.53	72.13	2,396.60	1,749.96
770.94			1,311.13	450.05	1,447.76	745.09
	193.10			69.23	149.60	17.56
	891.17					
10,745.00	674.00	405.00	4,464.00	1,151.00	11,563.00	2,628.00
149,503.04	11,316.78	11,275.94	66,853.37	20,941.07	131,049.77	46,438.32
37,067.02	1,916.02	2,382.81	7,739.04	412.53	15,895.89	3,818.37
1,980	226	223	660	302	2,640	598
248	66	63	124	82	215	144
66	7	5	21	14	40	28
2,294	299	291	805	398	2,895	770

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Moore- field P.V.	Morris- burg 1,825	Mount Brydges P.V.	Mount Forest 1,928	Napanee 3,554
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,033.02	15,739.76	4,105.78	16,235.83	38,944.48
Commercial light service.....	1,688.42	11,667.42	1,303.37	11,862.22	27,221.09
Commercial power service.....	1,500.37	7,360.07	1,137.77	8,579.53	16,021.00
Municipal power.....		1,050.50		1,002.95	779.09
Street lighting.....	350.00	3,142.25	872.00	2,275.92	4,105.44
Merchandise.....				3.64	4,741.99
Miscellaneous.....	21.17	462.49	406.25	490.58	426.54
Total earnings.....	5,592.98	39,422.49	7,825.17	40,450.67	92,239.63
EXPENSES					
Cost of power supplied by H-E.P.C.	3,702.72	15,554.60	3,902.97	24,039.56	48,193.20
Substation operation.....		3,846.21			
Substation maintenance.....					
Distribution system, operation and maintenance.....	154.43	2,449.80	213.72	2,196.32	1,959.90
Line transformer maintenance.....	5.64	162.66	38.79		121.64
Meter maintenance.....	108.80	457.35	37.91	279.04	1,050.47
Consumers' premises expenses.....		90.00	41.47		1,537.35
Street lighting, operation and main- tenance.....	70.00	519.44	36.05	483.99	949.57
Promotion of business.....					
Billing and collecting.....	222.25	2,082.96	664.71	1,148.40	2,972.85
General office, salaries and expenses	81.26	802.93	78.44	442.96	9,572.04
Undistributed expenses.....	6.21	403.34	1.66	161.43	3,922.64
Truck operation and maintenance.....		524.20		184.43	229.59
Interest.....				0.75	631.56
Sinking fund and principal payments on debentures.....					
Depreciation.....	201.00	1,243.00	394.00	1,350.00	3,753.00
Other reserves.....					
Total operating costs and fixed charges.....	4,552.31	28,136.49	5,409.72	30,286.88	74,893.81
Net surplus.....	1,040.67	11,286.00	2,415.45	10,163.79	17,345.82
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	80	508	206	584	1,081
Commercial light service.....	28	143	48	157	241
Power service.....	1	27	6	18	30
Total.....	109	678	260	759	1,352

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Neustadt	Newboro	*Newburgh	Newbury	Newcastle	New Hamburg
444	332	500	292	782	1,602
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,132.34	2,795.66	1,682.51	2,321.75	8,122.25	15,377.05
1,645.65	1,828.89	603.81	1,508.96	3,801.00	7,811.92
1,139.97		300.82	196.67	5,371.39	10,431.91
663.00	759.96	206.25	720.00	1,156.34	1,780.20
449.80			205.64	319.28	420.18
					417.99
7,030.76	5,384.51	2,793.39	4,953.02	18,770.26	36,239.25
3,235.17	1,714.84	1,205.94	2,888.40	10,006.91	25,983.95
					291.82
262.79	129.98	303.34	516.20	836.45	1,865.11
59.54	8.81	149.21		62.21	122.68
		33.70	146.46	510.86	414.45
				225.30	536.67
95.10	20.45	38.30	107.97	343.35	284.46
				36.00	
604.04	325.84	260.32	205.93	739.76	1,341.70
348.75	127.42	189.72	122.18	799.00	1,405.33
27.57			10.07	170.10	497.57
				600.88	711.42
	510.00	233.34			3.25
	632.67	291.66			
552.00	351.00	260.00	335.00	696.00	2,078.00
5,184.96	3,821.01	2,965.53	4,332.21	15,026.82	35,536.41
1,845.80	1,563.50		620.81	3,743.44	702.84
		172.14			
142	76	117	89	269	440
30	19	24	23	44	114
3		3	1	9	15
175	95	144	113	322	569

*6 months operation

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	New-market 4,521	New Toronto 9,156	Niagara 1,727	Niagara Falls 21,674	North York Twp. V.A.
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	44,736.09	70,176.62	28,605.80	147,450.40	579,010.52
Commercial light service.....	21,320.87	29,368.31	8,903.44	88,033.15	87,348.93
Commercial power service.....	26,193.07	244,985.31	1,781.45	114,283.48	124,344.02
Municipal power.....	2,288.50	12,721.25	933.85	15,999.03	11,902.92
Street lighting.....	6,280.50	7,672.96	3,963.44	33,497.25	24,924.43
Merchandise.....			2,233.06		
Miscellaneous.....	240.14	6,531.32	197.14	5,480.96	3,599.05
Total earnings.....	101,059.17	371,455.77	46,618.18	404,744.27	831,129.87
EXPENSES					
Cost of power supplied by H-E.P.C.	65,074.98	305,834.26	24,032.02	224,800.67	496,002.30
Substation operation.....				15,430.42	2,276.68
Substation maintenance.....	72.31		141.06		
Distribution system, operation and maintenance.....	4,468.71	16,106.78	2,660.19	18,482.99	35,885.86
Line transformer maintenance.....	987.26	757.55	274.34	1,081.76	7,333.68
Meter maintenance.....	917.94	3,865.63	801.16	10,119.44	9,180.71
Consumers' premises expenses.....	13.80	178.50	46.44	10,906.12	3,944.68
Street lighting, operation and main- tenance.....	1,315.65	2,322.95	938.67	7,659.59	3,555.58
Promotion of business.....					
Billing and collecting.....	4,172.36	5,819.76	1,840.57	15,059.09	38,931.40
General office, salaries and expenses	3,967.83	14,343.41	2,076.13	18,884.66	23,113.02
Undistributed expenses.....	470.20		1,069.95	10,805.38	
Truck operation and maintenance...	2,053.46		991.37	3,182.71	
Interest.....	84.12		339.26	559.51	32,059.14
Sinking fund and principal payments on debentures.....	1,000.00		2,786.25	5,458.68	34,289.96
Depreciation.....	4,914.00	10,467.00	3,669.00	23,942.00	47,978.00
Other reserves.....					
Total operating costs and fixed charges.....	89,512.62	359,695.84	41,666.41	366,373.02	734,551.01
Net surplus.....	11,546.55	11,759.93	4,951.77	38,371.25	96,578.86
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	1,351	2,338	783	5,657	17,520
Commercial light service.....	216	288	110	901	816
Power service.....	44	56	14	130	134
Total.....	1,611	2,682	907	6,688	18,470

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Norwich	Norwood	Oakville	Oil Springs	Omemeë	Orangeville
1,369	873	5,346	426	611	3,073
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
13,758.12	8,235.25	46,793.54	2,752.35	5,179.21	27,069.18
7,157.58	4,981.34	37,283.78	1,602.83	2,354.85	18,981.17
1,806.70	3,251.78	57,274.59	5,464.24	4,960.89	7,534.08
524.23		8,741.55	185.44		1,089.78
2,158.00	1,542.00	4,849.84	620.52	1,036.12	4,333.81
1,679.90			9.29		174.63
421.52	685.92	1,778.43	593.61	245.81	1,169.62
27,506.05	18,696.29	156,721.73	11,228.28	13,776.88	60,352.27
15,885.23	7,799.36	88,725.63	6,592.25	5,666.28	33,151.39
		285.52			
3,802.74	993.45	4,340.86	422.94	476.65	2,504.79
111.38	1.33	504.70	11.31	59.05	136.46
298.99	324.30	1,078.84	150.19	201.61	728.63
504.78		400.96	26.10		
340.86	690.50	1,837.82	29.56	244.63	664.87
1,085.97	946.50	5,077.27	786.33	570.94	2,406.30
1,458.69	242.71	7,797.95	966.43	235.15	981.09
189.69		307.00	2.57	91.98	189.16
91.26		1,803.54			641.20
31.07	264.53				
	2,140.15				
810.00	1,013.00	5,492.00	875.00	798.00	3,370.00
24,610.66	14,415.83	117,652.09	9,862.68	8,344.29	44,773.89
2,895.39	4,280.46	39,069.64	1,365.60	5,432.59	15,578.38
462	270	1,683	125	205	863
102	78	244	39	37	206
9	4	66	33	9	35
573	352	1,993	197	251	1,104

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Orono	Oshawa	Ottawa	Otterville	Owen Sound
Population.....	P.V.	28,037	161,455	P.V.	16,503
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,361.21	326,652.87	787,031.82	4,894.36	132,206.17
Commercial light service.....	2,764.27	109,848.14	373,257.18	2,946.87	71,933.13
Commercial power service.....	146.96	420,089.17	95,804.62	548.01	105,244.54
Municipal power.....		12,454.95	33,679.05	93.96	
Street lighting.....	1,065.00	22,870.05	89,244.34	934.00	12,235.64
Merchandise.....					
Miscellaneous.....	176.61	30,702.31	16,003.49	219.35	2,735.39
Total earnings.....	11,514.05	922,617.49	1,395,020.50	9,636.55	324,354.87
EXPENSES					
Cost of power supplied by H-E.P.C.	4,583.51	608,752.81	811,754.91	5,250.16	219,552.67
Substation operation.....		3,098.85	48,011.64		6,833.07
Substation maintenance.....			1,953.85		
Distribution system, operation and maintenance.....	438.26	37,074.82	51,461.51	456.48	7,749.95
Line transformer maintenance.....	10.20	567.39	8,780.78	17.10	1,970.78
Meter maintenance.....	179.81	9,043.51	17,634.78	462.95	5,734.53
Consumers' premises expenses.....	17.14	6,303.57	3,781.40	104.83	4,661.16
Street lighting, operation and maintenance.....	164.18	5,148.25	46,147.79	134.12	3,726.10
Promotion of business.....	3.50	979.77	3,774.82		258.52
Billing and collecting.....	795.61	18,042.02	55,496.01	366.85	16,654.41
General office, salaries and expenses	705.25	28,937.65	38,561.12	352.15	12,873.61
Undistributed expenses.....	51.25	13,276.07	18,827.84	7.13	3,784.94
Truck operation and maintenance.....		6,398.31	8,184.42		
Interest.....			3,550.45		190.28
Sinking fund and principal payments on debentures.....			15,551.44		
Depreciation.....	449.00	28,390.00	158,958.00	535.00	15,377.00
Other reserves.....		436.50	6,151.52		
Total operating costs and fixed charges.....	7,397.71	766,449.52	1,298,582.28	7,686.77	299,367.02
Net surplus.....	4,116.34	156,167.97	96,438.22	1,949.78	24,987.85
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	219	7,909	17,402	186	4,405
Commercial light service.....	53	873	1,813	62	658
Power service.....	3	147	237	8	123
Total.....	275	8,929	19,452	256	5,186

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Paisley 725	Palmerston 1,499	Paris 4,980	Parkhill 1,003	Parry Sound 4,627	Penetan- guishene 4,498	Perth 4,666
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,067.68	16,730.75	37,284.48	10,879.95	40,981.85	22,023.06	42,286.87
4,294.01	8,260.32	12,537.22	6,390.81	27,965.74	12,104.49	23,519.44
2,111.88	8,724.82	29,727.69	4,272.27	7,460.10	24,397.94	21,500.23
136.40	1,428.59	867.95	593.97	3,102.48	1,997.44	1,170.07
1,402.00	2,648.40	6,206.75	2,004.00	7,714.08	2,692.85	3,486.64
.....	105.77	.....	.....	237.81	56.65	4,461.78
187.13	528.21	1,228.80	87.49	5,821.40	1,398.43	3,664.44
15,199.10	38,426.86	87,852.89	24,228.49	93,283.46	64,670.86	100,089.47
7,766.06	20,897.50	55,769.20	14,168.22	17,862.56	35,034.13	53,987.77
.....	.....	862.76	.....	11,246.05	277.56	181.57
.....	.....	.....	.....	432.16	.....	.....
1,199.41	1,653.22	3,870.34	3,053.28	4,854.82	5,779.74	5,216.19
.....	330.56	279.98	41.00	297.11	348.60	281.24
79.49	613.09	1,137.53	125.75	1,833.28	776.87	1,178.94
.....	362.98	168.36	367.35	.....	38.01	102.21
250.29	511.53	2,519.72	392.96	680.80	393.66	856.43
.....	3.73	.....	.....	.....	.....	111.53
.....	1,466.43	3,037.35	1,126.58	3,691.33	2,305.49	3,476.73
1,298.33	1,162.22	2,205.53	142.19	7,821.06	1,773.78	4,276.59
48.08	157.18	1,165.19	59.10	2,525.40	296.53	484.02
.....	234.49	1,041.39	161.25	1,636.91	756.20	2,110.50
1.05	.....	12.15	37.80	1,650.25	.....	733.85
.....	.....	.....	.....	21,547.47	.....	3,623.24
966.00	2,462.00	4,853.00	1,482.00	8,899.00	3,168.00	4,080.00
.....
11,608.71	29,854.93	76,922.50	21,157.48	84,978.20	50,948.57	80,700.81
3,590.39	8,571.93	10,930.39	3,071.01	8,305.26	13,722.29	19,388.66
.....
245	457	1,321	343	1,389	982	1,317
62	110	202	94	272	136	237
6	20	31	12	21	23	35
313	587	1,554	449	1,682	1,141	1,589

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Peter- borough 34,948	Petrolia 3,027	Picton 3,915	Plattsville P.V.	Point Edward 1,670
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	300,931.73	18,426.08	37,662.01	4,417.63	11,826.53
Commercial light service	128,616.91	12,777.70	26,418.99	2,563.24	4,271.90
Commercial power service	290,698.66	24,481.38	11,433.39	3,880.52	69,057.51
Municipal power	6,741.35		3,089.32		129.21
Street lighting	28,475.29	3,192.00	3,897.54	408.00	2,143.98
Merchandise			210.47		1,141.82
Miscellaneous	6,305.57	1,413.69	1,056.79	314.31	1,275.60
Total earnings	761,769.51	60,290.85	83,768.51	11,583.70	89,846.55
EXPENSES					
Cost of power supplied by H-E.P.C.	492,974.26	30,363.22	56,447.47	9,246.13	75,430.00
Substation operation	13,523.19	250.46	11.98		
Substation maintenance	1,873.90				
Distribution system, operation and maintenance	26,401.59	4,652.61	1,407.46	330.42	1,029.08
Line transformer maintenance	2,138.42	317.16	134.74	57.84	34.16
Meter maintenance	20,750.29	2,084.10	1,112.04	69.95	595.81
Consumers' premises expenses	7,928.76	2,177.81	91.78		827.92
Street lighting, operation and main- tenance	10,299.49	764.65	677.10	32.25	473.19
Promotion of business	108.75	54.80			40.88
Billing and collecting	19,291.19	1,629.48	3,036.37	296.56	1,967.75
General office, salaries and expenses	13,781.11	4,174.54	4,248.35	58.45	3,233.68
Undistributed expenses	18,116.19	951.80	516.41	7.43	41.94
Truck operation and maintenance	11,833.08	1,825.88	838.99		
Interest	540.00			2.16	44.79
Sinking fund and principal payments on debentures	6,000.00				
Depreciation	43,930.00	5,763.00	4,740.00	494.00	1,201.00
Other reserves	300.00				
Total operating costs and fixed charges	689,790.22	55,009.51	73,262.69	10,595.19	84,920.20
Net surplus	71,979.29	5,281.34	10,505.82	988.51	4,926.35
Net loss					
NUMBER OF CONSUMERS					
Domestic service	9,189	877	1,265	129	431
Commercial light service	1,248	194	275	30	57
Power service	206	63	51	2	15
Total	10,643	1,134	1,591	161	503

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Port Colborne	Port Credit	Port Dalhousie	Port Dover	Port Elgin	Port Hope
7,613	2,696	2,348	2,201	2,486	5,724
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
39,132.21	30,856.97	30,824.73	16,962.84	20,627.21	58,751.97
26,491.66	11,486.66	6,860.63	10,113.55	11,496.53	24,011.13
18,034.60	8,449.94	8,970.13	9,456.90	4,174.08	60,029.43
6,494.21	1,334.22			901.14	1,861.61
9,173.63	3,275.66	1,922.00	3,280.97	3,083.94	4,748.72
				25.00	108.83
3,477.45	110.18	2.03	88.38	238.97	1,164.31
102,803.76	55,513.63	48,579.52	39,902.64	40,546.87	150,676.00
51,535.59	35,292.71	28,665.18	23,257.37	25,709.67	103,642.46
					37.40
10,075.10	2,970.18	6,664.73	3,513.01	1,904.75	3,731.84
1,144.24	256.31	170.52	123.93	186.34	261.08
3,309.39	978.76	353.62	479.83	174.66	1,570.78
793.28	1,156.74	328.20	.75	522.92	1,123.12
3 508.13	848.10	446.62	318.06	496.59	1,961.79
5,691.53	1,932.79	2,271.88	896.04	1,075.51	5,022.81
3,934.58	1,052.69	2,000.25	1,444.27	479.73	6,473.08
2,454.76	293.52	546.71	195.34	108.02	3,129.33
2,225.81	849.30	582.92	562.03	1,511.36	2,323.14
186.49	356.39		4.82	316.82	
1,819.58	862.31			3,056.90	
6,515.00	3,414.00	2,162.00	3,109.00	1,792.00	6,086.00
93,193.48	50,263.80	44,192.63	33,904.45	37,335.27	135,362.83
9,610.28	5,249.83	4,386.89	5,998.19	3,211.60	15,313.17
1,797	836	816	939	631	1,800
274	123	79	163	148	244
32	17	14	22	11	47
2,103	976	909	1,124	790	2,091

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Port McNicoll 890	Port Perry 1,435	Port Rowan 718	Port Stanley 996	Prescott 3,413
Population					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	5,882.41	16,290.60	4,336.87	23,649.04	30,642.22
Commercial light service	1,705.15	7,942.95	4,419.55	8,874.83	15,763.29
Commercial power service		3,652.61	115.82	14,498.19	11,053.63
Municipal power	666.22	275.92		997.17	1,512.57
Street lighting	1,040.00	1,807.41	782.92	2,730.75	3,760.78
Merchandise	14.11				
Miscellaneous	330.64	475.23	70.68	443.08	970.76
Total earnings	9,638.53	30,444.72	9,725.84	51,193.06	63,703.25
EXPENSES					
Cost of power supplied by H-E.P.C.	3,611.15	14,660.44	5,823.58	33,538.14	38,647.33
Substation operation					2,691.32
Substation maintenance					
Distribution system, operation and maintenance	721.75	1,638.40	450.78	1,919.24	5,033.77
Line transformer maintenance		38.65	61.70	42.25	226.68
Meter maintenance	46.65	299.54	94.48	2,232.57	414.82
Consumers' premises expenses		1,039.10			1,021.01
Street lighting, operation and main- tenance	136.07	294.64	113.44	290.39	864.33
Promotion of business					
Billing and collecting	783.46	1,190.02	463.86	2,239.87	2,554.81
General office, salaries and expenses	430.69	868.18	164.73	1,263.74	4,973.26
Undistributed expenses	67.74	14.44	18.57	547.39	681.15
Truck operation and maintenance				578.68	647.54
Interest	109.28			91.64	
Sinking fund and principal payments on debentures	200.00				
Depreciation	760.00	1,517.00	773.00	2,744.00	3,060.00
Other reserves					
Total operating costs and fixed charges	6,866.79	21,560.41	7,964.14	45,487.91	60,816.02
Net surplus	2,771.74	8,884.31	1,761.70	5,705.15	2,887.23
Net loss					
NUMBER OF CONSUMERS					
Domestic service	308	460	222	1,006	882
Commercial light service	24	91	73	126	169
Power service	1	12	2	13	27
Total	333	563	297	1,145	1,078

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Preston 7,239	Priceville P.V.	Princeton P.V.	Queenston P.V.	Renfrew 6,434	Richmond 523	Richmond Hill 1,751
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
56,047.03	1,015.59	3,809.50	4,021.62	50,119.01	4,489.00	20,355.54
24,685.04	362.33	1,175.89	2,450.03	22,434.55	1,875.08	6,596.94
68,541.26	261.36	2,721.65		52,582.37		2,446.92
1,394.93						510.36
7,894.02	53.00	566.00	576.00	6,648.00	506.25	1,497.34
1,113.16	32.60	232.78	227.58	11,239.70		261.02
159,675.44	1,724.88	8,505.82	7,275.23	143,023.63	6,870.33	31,668.12
119,608.42	820.36	6,290.34	3,921.61	32,924.07	4,536.36	21,184.61
4,157.70				29,128.70		
1,289.60				1,783.08		
2,779.30	200.24	168.92	505.72	7,386.36	75.70	1,547.62
314.96		31.50		595.63		78.13
1,277.56	20.75	71.83	171.74	1,071.79	16.97	211.33
1,474.24			251.12	18.80		63.47
1,871.36	21.45	83.50	27.28	714.29	46.48	342.57
2,685.64		260.95	258.45	4,389.02	264.80	1,703.00
4,387.87	479.26	59.47	278.42	7,980.00	125.49	380.88
1,406.64		2.01	5.00	7,368.29		6.37
1,603.42				680.96		
119.73	87.95		2.76	2,024.00		
1,455.65			114.52	9,260.60		
8,026.00	398.00	240.00	366.00	11,470.00	402.00	1,357.00
152,458.09	2,028.01	7,208.52	5,902.62	116,795.59	5,467.80	26,874.98
7,217.35		1,297.30	1,372.61	26,228.04	1,402.53	4,793.14
	303.13					
1,903	52	101	96	1,802	127	578
251	15	22	19	257	25	101
60	2	4		59		19
2,214	69	127	115	2,118	152	698

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Ridgetown	Ripley	Riverside	Rockwood	Rodney
Population.....	2,209	437	6,857	P.V.	859
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	11,539.50	4,860.03	65,640.91	6,307.53	4,893.52
Commercial light service.....	10,474.69	2,643.84	11,325.02	2,203.74	3,705.35
Commercial power service.....	7,521.54	1,043.96	5,619.51	67.29	3,259.81
Municipal power.....	1,376.56	528.72	3,850.91		
Street lighting.....	3,483.61	1,066.00	5,352.69	700.60	1,142.10
Merchandise.....			1,126.88	3.66	
Miscellaneous.....	1,242.54	7.94	1,477.85	132.27	202.32
Total earnings.....	35,638.44	10,150.49	94,393.77	9,415.09	13,203.10
EXPENSES					
Cost of power supplied by H-E.P.C.	18,274.64	5,659.51	55,048.09	5,917.48	7,453.32
Substation operation.....			96.12		
Substation maintenance.....					
Distribution system, operation and maintenance.....	5,092.92	275.29	3,562.56	362.82	1,026.47
Line transformer maintenance.....	43.21		155.86	12.91	41.50
Meter maintenance.....	1,063.68	160.51	1,400.60	76.73	493.51
Consumers' premises expenses.....	216.69		9,010.39		
Street lighting, operation and maintenance.....	967.92	98.06	977.37	80.91	332.84
Promotion of business.....	39.29				
Billing and collecting.....	3,212.77		2,876.74	628.32	542.49
General office, salaries and expenses	3,344.97	595.03	4,324.45	477.92	623.47
Undistributed expenses.....	10.56		1,186.19	25.29	58.87
Truck operation and maintenance...	432.16		1,611.35		
Interest.....		66.70	204.95	28.00	
Sinking fund and principal payments on debentures.....		969.86		173.29	
Depreciation.....	1,460.00	658.00	6,700.00	499.00	927.00
Other reserves.....					
Total operating costs and fixed charges.....	34,158.81	8,482.96	87,154.67	8,282.67	11,499.47
Net surplus.....	1,479.63	1,667.53	7,239.10	1,132.42	1,703.63
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	707	144	2,145	199	295
Commercial light service.....	164	55	104	38	76
Power service.....	25	2	15	2	8
Total.....	896	201	2,264	239	379

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Rosseau 240	Russell P.V.	St. Catharines 35,436	St. Clair Beach 322	St. George P.V.	St. Jacobs P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,457.89	4,853.09	250,979.25	4,853.45	4,688.40	6,001.80
1,274.62	3,176.09	119,725.99	2,208.75	2,907.74	2,694.08
701.88	222.00	453,069.34	215.25	3,852.98	4,441.35
940.02	880.00	29,142.72	269.00	539.67	460.00
75.00	222.49	12,207.63	336.74	221.17	359.30
5,449.41	9,353.67	865,124.93	7,883.19	12,209.96	13,956.53
2,520.91	4,262.89	645,169.89	4,441.87	7,325.64	10,359.89
		17,796.14			
344.90	707.94	34,492.37	818.01	226.74	170.22
120.95	164.98	2,760.94	71.00	27.69	153.60
	27.00	13,397.57	88.10	50.99	70.05
		3,074.38	37.95		
89.78	247.96	5,891.83	6.60	169.60	110.07
		2,753.85			
389.00	558.80	26,827.22	473.42	744.09	806.90
106.34	285.86	14,669.33	674.42	325.01	189.87
12.75		14,589.49	1.65	23.10	8.05
		6,185.74			
286.46		350.00	1.14	2.10	
846.94		3,500.00			
250.00	548.00	37,455.00	434.00	578.00	692.00
4,968.03	6,803.43	828,913.75	7,048.16	9,472.96	12,560.65
481.38	2,550.24	36,211.18	835.03	2,737.00	1,395.88
81	136	10,089	143	191	166
16	38	1,302	13	39	38
1	1	241	1	4	9
98	175	11,632	157	234	213

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	St. Marys	St. Thomas	Sarnia	Scarborough Twp. V.A.
Population.....	3,929	19,135	23,284	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	46,463.00	172,579.90	175,460.63	278,819.34
Commercial light service.....	17,687.75	72,776.24	88,152.57	59,622.98
Commercial power service.....	28,126.82	108,361.71	289,988.10	52,100.57
Municipal power.....	1,607.99	4,940.63	5,772.36	18,853.49
Street lighting.....	4,956.50	15,660.07	20,263.78	16,415.40
Merchandise.....	29.19		10,627.89	
Miscellaneous.....	485.08	3,632.03	16,172.90	609.28
Total earnings.....	99,356.33	377,950.58	606,438.23	426,421.06
EXPENSES				
Cost of power supplied by H-E.P.C....	64,187.67	244,309.10	383,953.66	276,089.85
Substation operation.....	3,365.93	15,199.25	19,653.06	1,297.49
Substation maintenance.....	84.26	2,132.17	3,272.67	
Distribution system, operation and maintenance.....	3,056.96	19,746.56	15,455.13	24,429.48
Line transformer maintenance.....	390.91	1,291.21	2,886.14	4,700.44
Meter maintenance.....	982.53	8,859.74	13,413.74	1,290.46
Consumers' premises expenses.....	5,065.45	19,242.63	27,548.80	3,359.79
Street lighting, operation and main- tenance.....	1,099.77	4,303.86	8,109.53	5,550.60
Promotion of business.....	82.31	920.40	320.19	
Billing and collecting.....	2,529.16	13,604.55	17,220.85	16,347.82
General office, salaries and expenses..	4,094.53	17,534.23	29,786.91	13,090.40
Undistributed expenses.....	1,774.19		13,000.66	
Truck operation and maintenance.....	2,173.84		3,844.33	
Interest.....	678.56		3,059.38	
Sinking fund and principal payments on debentures.....	1,732.91		4,000.00	
Depreciation.....	4,776.00	15,610.17	33,008.00	30,774.00
Other reserves.....				
Total operating costs and fixed charges.....	96,074.98	362,753.87	578,533.05	376,930.33
Net surplus.....	3,281.35	15,196.71	27,905.18	49,490.73
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	1,186	5,176	6,273	10,099
Commercial light service.....	204	650	778	729
Power service.....	41	93	107	108
Total.....	1,431	5,919	7,158	10,936

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Seaforth 1,971	Shelburne 1,209	Simcoe 6,908	Smiths Falls 8,335	Smithville P.V.	Southampton 1,792
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
19,323.55	9,591.67	37,131.96	77,102.55	4,842.13	17,145.92
12,688.90	5,879.73	40,055.89	36,365.42	4,490.19	7,997.44
16,635.41	3,795.20	35,280.48	36,889.77	13,561.16	10,233.73
693.87	345.40	3,356.75	1,064.15		1,106.22
2,039.00	1,197.00	7,514.61	8,992.96	1,344.00	2,914.91
333.47		145.98			17.00
468.50	296.09	4,444.68	4,867.86	461.21	281.00
52,182.70	21,105.09	127,930.35	165,282.71	24,698.69	39,696.22
34,453.67	13,214.33	80,727.43	101,962.04	14,677.75	25,372.72
258.15		1,475.91	328.52		
			1,528.95		
3,456.27	1,088.53	7,101.83	8,473.68	2,308.24	2,622.09
126.43	33.85	1,258.93	194.02	38.68	92.74
642.43	390.37	3,170.43	2,032.19	158.40	676.67
731.90		1,125.19	296.88	455.90	809.54
356.96	300.89	1,668.00	2,659.94	286.94	618.93
		38.56			
1,495.23	951.58	4,411.90	6,215.34	1,333.05	1,208.39
1,808.23	371.90	4,341.52	7,041.42	656.23	760.53
922.10	4.27	969.03	2,581.96	85.17	128.83
1,018.63		2,975.19	3,223.80	415.78	952.49
314.70	15.92	131.11	216.14	79.06	24.80
637.06		831.80		968.91	
2,638.00	1,214.00	8,301.00	6,156.00	821.00	1,839.00
48,859.76	17,585.64	118,527.83	142,910.88	22,285.11	35,106.73
3,322.94	3,519.45	9,402.52	22,371.83	2,413.58	4,589.49
590	362	1,947	2,378	209	705
125	97	446	350	63	111
19	13	70	47	10	14
734	472	2,463	2,775	282	830

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Springfield	Stamford Twp. V.A.	Stayner	Stirling
Population	455		1,120	1,115
EARNINGS				
	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	3,505.28	114,838.53	10,227.86	11,069.80
Commercial light service	1,223.33	27,350.12	6,112.52	4,873.69
Commercial power service	1,656.29	25,422.04	4,018.21	2,368.92
Municipal power		2,587.40	116.38	291.19
Street lighting	619.00	9,943.50	1,612.00	1,744.02
Merchandise		3,540.52	5.70	89.66
Miscellaneous	194.93	357.31	399.20	481.55
Total earnings	7,198.83	184,039.42	22,491.87	20,918.83
EXPENSES				
Cost of power supplied by H-E.P.C. . .	3,602.01	89,526.80	11,949.11	11,252.03
Substation operation		1,184.98		241.60
Substation maintenance				
Distribution system, operation and maintenance	487.42	10,855.84	1,187.67	1,330.49
Line transformer maintenance	42.96	1,798.01		2.92
Meter maintenance	325.02	4,800.43	302.15	81.93
Consumers' premises expenses	2.70	5,071.06	377.65	5.00
Street lighting, operation and main- tenance	95.84	1,989.32	290.30	357.45
Promotion of business				
Billing and collecting	483.45	8,040.23	1,161.22	998.99
General office, salaries and expenses ..	336.00	7,582.17	524.06	1,940.18
Undistributed expenses	11.28	7,526.12	5.33	197.45
Truck operation and maintenance		6,718.84		320.33
Interest		4,632.26		
Sinking fund and principal payments on debentures		9,138.94		
Depreciation	647.00	16,327.00	984.00	1,415.00
Other reserves				
Total operating costs and fixed charges	6,033.68	175,192.00	16,781.49	18,143.37
Net surplus	1,165.15	8,847.42	5,710.38	2,775.46
Net loss				
NUMBER OF CONSUMERS				
Domestic service	133	3,692	353	343
Commercial light service	33	248	106	86
Power service	4	28	20	15
Total	170	3,968	479	444

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Stoney Creek	Stouffville	Stratford	Strathroy	Streetsville	Sunderland
1,395	1,438	18,548	3,333	870	P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
19,349.68	13,134.14	193,022.44	36,294.93	10,892.87	5,135.27
7,913.33	7,011.47	64,305.05	18,271.25	4,909.86	2,508.75
3,481.20	5,029.32	77,652.02	19,343.94	15,017.66	2,878.43
.....	.....	9,823.38	1,390.94	435.63	.....
999.92	1,485.00	17,650.29	4,545.08	1,500.00	693.20
.....	.....	1,891.32	.....	.....	3.77
.....	247.70	16,133.48	1,097.46	114.61	.....
31,744.13	26,907.63	380,477.98	80,943.60	32,870.63	11,219.42
.....
15,901.32	17,275.85	226,692.73	49,109.09	18,601.28	6,296.15
.....	.....	10,261.09	1,640.00	.....	.....
.....	.....	1,804.96	.....	2,014.72	.....
682.70	1,047.22	17,545.95	6,892.54	1,228.10	763.44
312.14	55.70	665.21	544.48	14.07	62.89
356.48	934.45	5,766.56	822.58	284.75	113.64
347.22	248.42	6,906.16	136.01	3.56	.....
57.42	150.11	3,576.30	1,866.64	154.87	87.55
.....	.....	1,559.56	144.42	.....	.....
787.48	1,272.84	12,267.79	1,677.78	1,264.12	664.37
82.16	456.55	12,932.72	3,580.80	473.93	121.45
5.47	68.93	4,446.44	718.91	.....	4.51
.....	.....	2,778.99	499.92	.....	.....
1,400.00	.....	3,550.00	218.52	.....	6.60
1,414.44	.....	.....	1,386.33	.....	.....
2,283.00	1,074.00	21,718.00	3,547.00	1,278.00	316.00
.....
.....
23,629.83	22,584.07	332,472.46	72,785.02	25,317.40	8,436.60
8,114.30	4,323.56	48,005.52	8,158.58	7,553.23	2,782.82
.....
.....
475	491	5,014	1,070	260	175
79	99	670	211	58	39
10	10	137	38	12	2
564	600	5,821	1,319	330	216

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Sutton	Swansea	Tara	Tavistock
Population	1,114	7,360	491	1,079
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	13,240.77	88,031.68	4,146.89	11,907.50
Commercial light service	11,013.08	15,759.22	2,034.58	5,810.18
Commercial power service	2,821.20	26,899.41	1,776.73	9,089.72
Municipal power		1,983.59	125.57	417.66
Street lighting	2,237.75	7,207.07	1,005.00	1,324.42
Merchandise				11.09
Miscellaneous	211.09	1,949.68	24.46	399.84
Total earnings	29,523.89	141,830.65	9,113.23	28,960.41
EXPENSES				
Cost of power supplied by H-E.P.C. ...	17,479.68	89,851.17	6,311.02	21,859.37
Substation operation				58.27
Substation maintenance		405.75		
Distribution system, operation and maintenance	763.49	2,102.33	364.92	1,049.92
Line transformer maintenance	199.15	402.41		29.72
Meter maintenance	134.67	1,126.81	201.53	279.40
Consumers' premises expenses		10,242.58		611.19
Street lighting, operation and maintenance	394.97	1,316.31	136.00	285.85
Promotion of business				
Billing and collecting	850.68	6,222.11	262.20	1,516.66
General office, salaries and expenses ..	406.52	3,178.70	142.89	668.90
Undistributed expenses	60.09		17.31	35.22
Truck operation and maintenance	154.05			
Interest		1,616.57		21.27
Sinking fund and principal payments on debentures		4,573.99		
Depreciation	1,684.00	4,602.00	714.00	880.00
Other reserves				
Total operating costs and fixed charges	22,127.30	125,640.73	8,149.87	27,295.77
Net surplus	7,396.59	16,189.92	963.36	1,664.64
Net loss				
NUMBER OF CONSUMERS				
Domestic service	531	2,325	178	330
Commercial light service	114	144	44	101
Power service	10	24	8	9
Total	655	2,493	230	440

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Tecumseh 3,343	Teeswater 849	Thamesford P.V.	Thamesville 857	Thedford 579	Thornbury 943
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
21,950.45	6,657.69	6,411.90	5,061.15	5,143.13	8,546.03
7,772.35	4,004.38	2,471.35	4,191.02	3,677.64	4,216.76
7,635.24	2,753.73	2,621.53	4,012.51	2,463.27	3,271.49
503.71	590.72	.....	168.80	.....	673.75
1,714.85	1,125.66	656.16	1,325.70	1,275.00	1,845.30
.....	.....	.....	.....	.....	0.04
685.23	413.03	118.33	424.26	304.65	.....
40,261.83	15,545.21	12,279.27	15,183.44	12,863.69	18,553.37
22,079.13	9,023.43	9,155.56	9,726.13	8,320.30	3,602.18
.....	.....	.....	.....	.....	4,974.54
1,640.18	554.84	682.99	887.87	680.56	975.44
472.78	.....	15.14	19.15	120.39	.....
867.64	142.57	165.93	145.61	28.35	61.15
1,579.29	.....	382.54	.....	.....	.....
638.18	98.05	92.43	213.86	87.66	251.30
24.41	.....	.....	.....	.....	.....
1,567.45	723.93	238.96	917.60	616.49	885.76
2,211.25	394.81	103.49	449.44	197.24	622.42
234.26	.....	8.52	31.53	10.29	229.08
554.25	.....	.....	.....	.....	.....
3.40	4.44	.....	1.66	6.04	172.72
.....	.....	.....	.....	.....	255.36
2,860.00	815.00	457.00	839.00	834.00	1,012.00
.....
34,732.22	11,757.07	11,302.56	13,231.85	10,901.32	13,041.95
5,529.61	3,788.14	976.71	1,951.59	1,962.37	5,511.42
.....
892	254	172	287	196	315
87	65	45	92	63	70
8	8	5	11	3	14
987	327	222	390	262	399

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Thorndale	Thornton	Thorold	Tilbury
Population.....	P.V.	P.V.	6,173	2,205
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,147.64	1,868.24	28,694.50	14,544.24
Commercial light service.....	1,116.21	617.96	11,233.74	10,504.89
Commercial power service.....	2,375.19	426.81	60,848.58	19,982.36
Municipal power.....			4,168.79	225.00
Street lighting.....	384.00	25.00	4,288.73	3,013.05
Merchandise.....				
Miscellaneous.....	74.14	74.65	2,211.71	773.65
Total earnings.....	7,097.18	3,012.66	111,446.05	49,043.19
EXPENSES				
Cost of power supplied by H-E.P.C....	4,831.11	2,194.26	79,504.36	36,162.16
Substation operation.....			5,235.00	
Substation maintenance.....				
Distribution system, operation and maintenance.....	513.71	344.19	5,056.53	3,795.59
Line transformer maintenance.....	28.72		418.05	191.60
Meter maintenance.....	173.00	18.84	792.67	572.21
Consumers' premises expenses.....	6.00		801.05	
Street lighting, operation and maintenance.....	20.00	81.03	1,769.11	748.56
Promotion of business.....				7.25
Billing and collecting.....	224.10		3,334.70	1,336.73
General office, salaries and expenses..	52.00	169.45	2,144.50	1,573.19
Undistributed expenses.....	1.52		1,356.41	466.27
Truck operation and maintenance.....			1,472.94	406.72
Interest.....	4.85			114.99
Sinking fund and principal payments on debentures.....				
Depreciation.....	250.00	357.00	4,952.00	3,007.00
Other reserves.....				
Total operating costs and fixed charges.....	6,105.01	3,164.77	106,837.32	48,382.27
Net surplus.....	992.17		4,608.73	660.92
Net loss.....		152.11		
NUMBER OF CONSUMERS				
Domestic service.....	85	72	1,521	708
Commercial light service.....	21	14	178	152
Power service.....	3	2	33	20
Total.....	109	88	1,732	880

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Tillsonburg 4,727	Toronto 680,000	Toronto Twp. V.A.	Tottenham 551	Trafalgar Twp. V.A.	Trenton 9,337
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
31,732.97	4,900,193.46	181,419.86	5,651.54	41,531.32	68,552.74
27,867.27	3,379,248.00	37,577.39	2,530.32	6,203.42	27,717.68
25,753.75	5,387,912.75	80,290.34	1,716.07	5,780.64	95,565.45
1,948.78	1,696,115.51	508.42	374.33		6,498.06
5,764.89	491,796.83	8,423.59	1,037.16	145.00	10,674.31
428.02	21,468.46				
637.30	570,068.22	662.13		236.21	4,456.25
94,132.98	16,446,803.23	308,881.73	11,309.42	53,896.59	213,464.49
57,332.91	*9,550,082.17	183,494.96	5,243.29	29,735.16	151,253.71
1,995.19	382,740.25				325.84
	506,451.84				
6,313.55	635,478.25	15,733.07	849.13	9,017.88	4,046.69
871.21	101,309.85	2,186.30	13.05	495.94	346.72
1,417.75	171,263.79	1,782.51	132.73	929.16	3,549.27
189.39	416,118.09	467.72		27.89	2,273.32
1,862.47	185,477.88	3,374.88	67.20	11.20	1,080.24
	211,899.79				
3,498.39	650,753.49	13,783.49	568.20	2,117.19	6,480.95
3,999.53	613,657.75	19,897.24	206.21	1,563.14	7,178.21
1,638.35	461,790.55		73.00	1,279.35	1,972.34
1,933.31			341.84	2,664.81	3,072.87
306.04	134,617.29	1,943.32	294.94	236.79	
459.59	332,587.95	3,755.10	537.67	1,189.75	
6,183.00	1,477,091.07	20,264.00	603.00	3,546.00	10,731.00
	†600,000.00				
88,000.68	16,431,320.01	266,682.59	8,930.26	52,814.26	192,311.16
6,132.30	15,483.22	42,199.14	2,379.16	1,082.33	21,153.33
1,483	155,963	4,773	186	843	2,444
330	25,550	365	50	74	314
48	5,839	85	9	17	61
1,861	188,352	5,223	245	934	2,819

*Includes 1949 power adjustment.

†Provision for frequency standardization.

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Tweed	Uxbridge	Victoria Harbour 933	Walkerton
Population.....	1,700	1,630	933	2,979
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	12,362.30	17,297.40	5,479.34	29,764.20
Commercial light service.....	7,578.34	7,309.74	1,261.95	19,826.62
Commercial power service.....	9,557.91	4,851.27		16,152.53
Municipal power.....	500.79	505.35	418.99	541.59
Street lighting.....	1,850.07	1,985.98	663.00	3,349.91
Merchandise.....		46.76		32.73
Miscellaneous.....	441.72	366.94	93.80	1,218.28
Total earnings.....	32,291.13	32,363.44	7,917.08	70,885.86
EXPENSES				
Cost of power supplied by H-E.P.C....	18,149.64	18,486.47	4,577.96	35,227.69
Substation operation.....				
Substation maintenance.....				
Distribution system, operation and maintenance.....	1,667.50	2,009.35	607.96	2,772.93
Line transformer maintenance.....	71.95	71.40		331.45
Meter maintenance.....	541.12	310.63	70.45	544.53
Consumers' premises expenses.....		724.23		39.97
Street lighting, operation and main- tenance.....	240.73	395.81	172.60	401.32
Promotion of business.....				
Billing and collecting.....	1,100.71	1,193.88	880.53	2,824.79
General office, salaries and expenses..	402.06	1,030.39	565.80	1,987.45
Undistributed expenses.....	11.19	11.72	75.44	240.76
Truck operation and maintenance.....				1,373.88
Interest.....				688.34
Sinking fund and principal payments on debentures.....				4,366.94
Depreciation.....	1,103.00	1,363.00	464.00	2,747.00
Other reserves.....				
Total operating costs and fixed charges.....	23,287.90	25,596.88	7,414.74	53,547.05
Net surplus.....	9,003.23	6,766.56	502.34	17,338.81
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	389	518	327	824
Commercial light service.....	86	109	35	176
Power service.....	19	17	1	21
Total.....	494	644	363	1,021

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Wallaceburg 6,920	Wardsville 315	Warkworth P.V.	Waterdown 1,070	Waterford 1,546	Waterloo 10,680
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
43,804.27	3,017.17	4,045.67	10,869.30	11,116.00	91,515.48
28,118.54	2,299.89	2,267.26	3,457.40	4,674.97	32,336.41
188,629.12	42.42	206.98	1,810.17	5,603.98	99,770.65
5,475.92			118.82	328.34	4,220.41
5,676.75	666.00	666.24	1,225.00	1,510.00	8,423.16
4,325.93					150.06
4,361.86	128.47	127.09	252.15	395.34	869.20
280,392.39	6,153.95	7,313.24	17,732.84	23,628.63	237,285.37
194,838.20	3,729.35	4,057.59	11,400.67	14,089.41	183,237.43
698.15					3,612.05
					726.81
6,884.91	549.03	338.35	1,265.33	2,578.66	11,237.24
86.27	10.00		172.65	156.90	880.06
1,832.04	137.81	193.86	707.10	360.92	2,851.48
					740.96
1,387.25	74.22	18.50	198.89	317.26	1,834.15
141.36					
3,363.52	111.87	289.95	1,027.36	787.08	6,197.97
6,243.92	115.95	70.39	140.10	542.86	8,302.33
2,186.86	18.84	8.56	84.99	139.69	2,669.59
3,708.51			192.53		2,183.51
	6.76	235.78			19.32
		563.36			
10,724.00	271.00	236.00	1,274.00	941.00	10,503.00
232,094.99	5,024.83	6,012.34	16,463.62	19,913.78	234,995.90
48,297.40	1,129.12	1,300.90	1,269.22	3,714.85	2,289.47
1,924	87	162	341	510	2,864
309	23	40	48	81	302
66	1	1	10	15	114
2,299	111	203	399	606	3,280

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality.....	Watford	Waubau- shene P.V.	Welland	Wellesley
Population.....	1,079		16,004	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	12,212.59	5,764.35	64,948.56	4,242.78
Commercial light service.....	6,580.34	1,556.69	53,046.81	2,923.83
Commercial power service.....	5,914.66	854.81	190,028.01	1,414.61
Municipal power.....	376.10	175.97	3,817.15	
Street lighting.....	1,576.44	599.00	15,897.73	771.60
Merchandise.....	80.96			
Miscellaneous.....	428.38	23.30	12,998.50	205.72
Total earnings.....	27,169.47	8,974.12	340,736.76	9,558.54
EXPENSES				
Cost of power supplied by H-E.P.C....	18,112.27	5,110.71	245,193.64	6,115.93
Substation operation.....			12,564.79	
Substation maintenance.....			634.08	
Distribution system, operation and maintenance.....	2,253.26	375.60	8,414.97	166.91
Line transformer maintenance.....	6.94		904.42	57.26
Meter maintenance.....	227.76	114.00	9,944.25	66.60
Consumers' premises expenses.....	99.37		4,850.75	201.08
Street lighting, operation and main- tenance.....	160.61	113.90	2,678.60	165.13
Promotion of business.....	13.40		14.90	
Billing and collecting.....	1,069.13	558.29	9,396.06	385.80
General office, salaries and expenses..	1,045.31	158.67	13,457.03	335.20
Undistributed expenses.....	367.66	69.25	7,521.39	5.68
Truck operation and maintenance.....	648.77		2,214.68	
Interest.....				
Sinking fund and principal payments on debentures.....				
Depreciation.....	856.00	578.00	14,367.00	585.00
Other reserves.....				
Total operating costs and fixed charges.....	24,860.48	7,078.42	332,156.56	8,084.59
Net surplus.....	2,308.99	1,895.70	8,580.20	1,473.95
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	343	281	3,572	160
Commercial light service.....	84	30	569	52
Power service.....	9	3	99	8
Total.....	436	314	4,240	220

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Wellington	West Lorne	Weston	Westport	Wheatley	Whitby	Warton
1,036	927	7,219	687	969	4,638	1,837
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,306.33	6,160.79	81,961.28	5,712.43	6,279.52	49,633.00	13,079.69
3,888.82	4,897.33	22,227.36	4,996.93	7,051.80	18,557.90	11,264.38
5,311.47	14,614.77	73,558.02		5,988.98	19,544.74	10,576.58
		31.26		629.98	2,686.65	2,160.57
1,126.98	1,245.17	7,940.22	1,120.08	2,036.50	5,009.22	2,273.81
409.71	461.92	284.67	207.42	39.35	896.60	566.16
20,043.31	27,379.98	186,002.81	12,036.86	22,026.13	96,328.11	39,921.19
10,664.05	19,324.30	133,415.33	5,960.70	14,793.96	50,860.53	23,405.13
		856.82			888.67	
816.56	482.86	13,126.31	959.37	1,248.89	6,186.30	1,797.31
138.50		1,623.33		270.25	714.35	116.91
134.40	38.18	1,976.34	76.20	138.26	1,456.72	277.41
91.63		883.07		163.33	3,406.83	509.49
21.80	531.43	1,654.42	146.36	398.93	1,545.19	471.76
					141.08	
597.97	734.78	4,112.89	812.20	756.74	3,535.33	992.17
513.72	417.10	7,779.80	770.34	938.54	6,300.29	1,040.36
337.64	6.02	1,453.11	42.81	29.95	1,900.46	370.23
171.33		3,894.57			506.41	657.23
	2.45			46.88	181.75	544.20
			1,255.20		568.34	2,468.98
1,241.00	1,423.00	10,761.00	443.00	1,600.00	6,748.00	1,494.00
14,728.60	22,960.12	181,536.99	10,466.18	20,385.73	84,940.25	34,145.18
5,314.71	4,419.86	4,465.82	1,570.68	1,640.40	11,387.86	5,776.01
388	279	2,102	177	283	1,300	513
80	74	356	61	88	196	110
12	13	46		15	34	25
480	366	2,504	238	386	1,530	648

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Continued

Municipality	Williams- burg P.V.	Winchester	Windermere	Windsor
Population		1,094	118	118,702
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	2,318.56	10,376.40	2,921.54	865,239.65
Commercial light service	2,344.11	7,400.54	1,380.45	494,312.17
Commercial power service		6,232.83	1,077.59	885,410.64
Municipal power				24,279.99
Street lighting	472.10	1,062.00	325.00	118,389.42
Merchandise				57,832.91
Miscellaneous	645.78	285.94	81.21	39,922.05
Total earnings	5,780.55	25,357.71	5,785.79	2,485,386.83
EXPENSES				
Cost of power supplied by H-E.P.C. . .	3,335.28	18,163.10	2,934.51	*1,679,539.34
Substation operation				84,793.58
Substation maintenance				26,250.19
Distribution system, operation and maintenance	215.62	610.48	501.23	64,262.82
Line transformer maintenance		142.99		14,928.24
Meter maintenance	59.28	355.33	6.60	42,005.23
Consumers' premises expenses		80.85		119,639.61
Street lighting, operation and main- tenance	59.28	151.65	51.43	59,055.53
Promotion of business				9,580.77
Billing and collecting	446.66	1,099.92	182.25	102,792.80
General office, salaries and expenses ..	123.49	344.59	100.64	79,986.86
Undistributed expenses			6.72	7,078.71
Truck operation and maintenance				20,459.47
Interest			132.79	16,585.10
Sinking fund and principal payments on debentures			890.79	
Depreciation	249.00	732.00	347.00	196,966.00
Other reserves				
Total operating costs and fixed charges	4,488.61	21,680.91	5,153.96	2,523,924.25
Net surplus	1,291.94	3,676.80	631.83	
Net loss				38,537.42
NUMBER OF CONSUMERS				
Domestic service	97	348	81	28,763
Commercial light service	37	95	12	3,771
Power service		4	2	604
Total	134	447	95	33,138

*Includes 1949 cost adjustment.

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Wingham	Woodbridge	Woodstock	Woodville	Wyoming	York Twp.
2,368	1,250	13,533	408	644	V.A.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
26,881.01	12,487.13	120,482.02	3,543.58	3,938.33	694,355.59
16,167.76	4,428.18	68,335.62	1,328.72	2,208.02	129,771.52
22,541.04	19,045.76	120,481.59	619.12	3,162.91	231,779.94
1,551.34	1,125.80	7,057.41			6,957.95
3,654.58	1,086.00	9,752.00	745.99	688.50	52,874.21
1,567.84		54.03			
472.65	366.40	1,591.22	187.51	78.00	8,033.86
72,836.22	38,539.27	327,753.89	6,424.92	10,075.76	1,123,773.07
37,267.66	33,340.18	240,010.03	2,575.70	6,830.12	672,870.69
4,365.03		14,408.53			6,322.93
					3,141.91
3,255.39	446.39	14,888.36	657.86	304.43	27,079.09
475.24	158.55	73.70		14.54	12,088.83
1,194.41	413.45	7,275.47	26.00	167.27	22,316.67
2,652.78	158.76	9,615.26			42,374.02
737.56	225.37	2,648.96	106.91	142.19	12,764.41
		2,683.05			
2,375.62	1,033.68	7,827.47	645.43	213.75	83,966.14
2,722.93	566.70	8,519.87	115.74	228.36	55,095.61
490.16	7.56	3,924.60	6.62	8.90	
2,296.23		2,510.71			
643.96				19.06	386.02
2,535.78					7,720.33
4,933.00	927.00	12,829.00	217.00	456.00	53,064.00
					824.13
65,945.75	37,277.64	327,215.01	4,351.26	8,384.62	1,000,014.78
6,890.47	1,261.63	538.88	2,073.66	1,691.14	123,758.29
725	367	4,109	133	196	25,437
157	70	552	30	48	1,474
26	10	117	2	4	286
908	447	4,778	165	248	27,197

STATEMENT

Detailed Operating Reports of Electrical Departments of

SOUTHERN ONTARIO SYSTEM—Concluded

Municipality	Zurich	SOUTHERN ONTARIO SYSTEM SUMMARY	Fort William 33,220	Nipigon V.A.
Population	P.V.			
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	5,716.33	19,884,906.04	340,059.52	12,817.66
Commercial light service	4,381.05	9,811,643.01	149,173.62	13,987.19
Commercial power service		18,577,982.85	112,432.30	1,732.59
Municipal power		2,408,972.76	16,271.69	
Street lighting	658.85	2,106,197.89	27,295.59	955.00
Merchandise		213,956.24		
Miscellaneous	208.39	1,204,506.40	6,503.91	662.69
Total earnings	10,964.62	54,208,165.19	651,736.63	30,155.13
EXPENSES				
Cost of power supplied by H-E.P.C.	7,536.10	34,448,133.56	403,324.83	13,563.71
Substation operation		1,058,435.19	12,527.63	
Substation maintenance		617,967.93	2,244.48	
Distribution system, operation and maintenance	679.14	2,016,327.07	15,299.20	4,133.94
Line transformer maintenance	112.05	270,138.36	3,338.95	228.42
Meter maintenance	116.23	703,786.53	10,302.59	441.51
Consumers' premises expenses		1,036,445.16	14,084.84	
Street lighting, operation and main- tenance	113.94	654,263.76	8,308.58	635.13
Promotion of business		279,778.73	705.00	
Billing and collecting	237.49	1,941,659.70	32,571.59	1,129.46
General office, salaries and expenses	437.54	1,867,842.55	19,229.02	1,381.77
Undistributed expenses	2.27	788,585.76	10,249.13	258.01
Truck operation and maintenance ..	64.44	244,796.68		671.69
Interest		285,392.94	12,588.80	
Sinking fund and principal payments on debentures		821,770.99	5,254.84	
Depreciation	391.00	3,501,152.09	30,442.00	1,335.00
Other reserves		630,690.02	1,000.00	
Total operating costs and fixed charges	9,690.20	51,167,167.02	581,471.48	23,778.64
Net surplus	1,274.42	3,040,998.17	70,265.15	6,376.49
Net loss				
NUMBER OF CONSUMERS				
Domestic service	185	650,026	9,164	374
Commercial light service	51	89,764	1,350	99
Power service		16,591	161	5
Total	236	756,381	10,675	478

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

THUNDER BAY SYSTEM									
Port Arthur 29,165		Red Rock I.D.		Schreiber V.A.		Terrace Bay I.D.		THUNDER BAY SYSTEM SUMMARY	
\$	c.	\$	c.	\$	c.	\$	c.	\$	c.
247,865.23		9,870.07		17,810.41		19,226.90		647,649.79	
140,632.35		6,400.16		9,450.11		7,974.67		327,618.10	
339,379.21		119.65		265.28		8,503.94		462,432.97	
30,134.67		553.45						46,959.81	
30,199.05		1,001.25		1,122.04		1,281.00		61,853.93	
14,981.90						37.65		22,186.15	
803,192.41		17,944.58		28,647.84		37,024.16		1,568,700.75	
592,886.54		9,765.80		10,465.74		28,149.80		1,058,156.42	
35,701.89								48,229.52	
3,512.30								5,756.78	
24,227.01		618.06		2,441.64		94.21		46,814.06	
2,599.51		113.88						6,280.76	
12,503.91		27.67		214.70		85.86		23,576.24	
		62.50						14,147.34	
6,101.07		108.21		263.76		202.39		15,619.14	
2,134.31								2,839.31	
22,653.55		920.24		1,742.28		1,463.26		60,480.38	
24,687.49		505.45		824.20		376.68		47,004.61	
23,920.44		232.22		432.94		7.43		35,100.17	
6,029.86								6,701.55	
		944.77		1,072.75				14,606.32	
		1,170.00		1,372.53				7,797.37	
40,077.67		771.00		923.00		1,590.00		75,138.67	
3,000.00								4,000.00	
800,035.55		15,239.80		19,753.54		31,969.63		1,472,248.64	
3,156.86		2,704.78		8,894.30		5,054.53		96,452.11	
8,176		190		395		227		18,526	
1,153		20		53		14		2,689	
148		3		4		1		322	
9,477		213		452		242		21,537	

STATEMENT

Detailed Operating Reports of Electrical Departments of

NORTHERN ONTARIO PROPERTIES

Municipality	Capreol	Larder Lake*	McGarry*	North Bay
Population	1,775	V.A.	I.D.	18,057
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service	19,064.45	13,920.55	13,174.26	156,787.92
Commercial light service	5,792.07	5,832.39	5,887.66	82,411.84
Commercial power service	8,281.62	414.48		69,423.40
Municipal power	768.09	839.97		5,787.45
Street lighting	1,883.92	1,122.66	521.78	12,996.89
Merchandise				2,777.93
Miscellaneous	125.97			
Total earnings	35,916.12	22,130.05	19,583.70	330,185.43
EXPENSES				
Cost of power supplied by H-E.P.C. . .	24,505.54	13,147.61	13,155.84	213,634.76
Substation operation	48.45			3,945.59
Substation maintenance				
Distribution system, operation and maintenance	2,933.29	655.88	500.61	16,961.29
Line transformer maintenance	67.85	116.39	98.25	1,553.10
Meter maintenance	378.34	152.62	109.86	6,973.82
Consumers' premises expenses	4.54			7,353.05
Street lighting, operation and maintenance	967.03	639.48	639.66	4,412.98
Promotion of business				
Billing and collecting	1,943.38	1,711.66	1,347.80	22,247.65
General office, salaries and expenses ..	984.90	1,826.08	1,103.80	19,348.52
Undistributed expenses	235.35	520.57	42.00	6,678.10
Truck operation and maintenance	788.41			5,649.61
Interest		514.36	395.72	725.52
Sinking fund and principal payments on debentures		675.00	375.00	
Depreciation	1,371.00	882.00	547.00	14,131.00
Other reserves				
Total operating costs and fixed charges	34,228.08	20,841.65	18,315.54	323,614.99
Net surplus	1,688.04	1,288.40	1,268.16	6,570.44
Net loss				
NUMBER OF CONSUMERS				
Domestic service	517	441	296	4,187
Commercial light service	69	89	60	775
Power service	2	4		102
Total	588	534	356	5,064

*9 months' operation.

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1949

Sioux Lookout 2,155	Sudbury 41,206	NORTHERN ONTARIO PROPERTIES SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.
28,697.28	373,634.46	605,278.92	21,137,834.75
21,395.08	183,813.69	305,132.73	10,444,393.84
1,868.16	57,667.43	137,655.09	19,178,070.91
1,825.63	10,386.09	19,607.23	2,475,539.80
3,075.00	31,898.95	51,499.20	2,219,551.02
.....	.....	2,777.93	216,734.17
13.25	4,244.47	4,383.69	1,231,076.24
56,874.40	661,645.09	1,126,334.79	56,903,200.73
27,102.43	427,232.59	718,778.77	36,225,068.75
.....	15,479.47	19,473.51	1,126,138.22
.....	2,317.05	2,317.05	626,041.76
4,729.88	21,970.64	47,751.59	2,110,892.72
189.51	938.91	2,964.01	279,383.13
281.27	16,123.64	24,019.55	751,382.32
.....	3,718.76	11,076.35	1,061,668.85
284.70	11,757.56	18,701.41	688,584.31
.....	.....	.....	282,618.04
3,856.84	43,827.53	74,934.86	2,077,074.94
1,685.82	21,931.52	46,880.64	1,961,727.80
318.03	1,857.56	9,651.61	833,337.54
890.81	10,324.48	17,653.31	269,151.54
.....	3,449.74	5,085.34	305,084.60
.....	11,564.59	12,614.59	842,182.95
1,030.00	37,232.00	55,193.00	3,631,483.76
.....	.....	.....	634,690.02
40,369.29	629,726.04	1,067,095.59	53,706,511.25
16,505.11	31,919.05	59,239.20	3,196,689.48
.....
660	9,764	15,865	684,417
121	1,314	2,428	94,881
8	155	271	17,184
789	11,233	18,564	796,482

STATEMENT "C"

(pages 286 to 305)

Cost of Power to Municipalities and Rates to Consumers for
Domestic Service—Commercial Light Service—Power Service
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1949

STATEMENT "D"

(pages 306 to 325)

Statistics relating to the Supply of Electrical Energy to Consumers
in Ontario Urban Municipalities Served by
The Hydro-Electric Power Commission
for the year 1949

STATEMENT "C"

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Ontario Urban Municipalities Served by The Hydro-Electric Power Commission for the year 1949

In Statement "C" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through The Hydro-Electric Power Commission of Ontario.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, an important factor in determining rates to consumers, is also stated.

Cost of Power to Municipalities

The figures in the first column represent the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of Killowatts supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission"†. In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

At the commencement of its operations, the Commission introduced scientifically-designed rate schedules for each of the three main classes into which electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement; subject however to the modification referred to in the special "NOTE—Power Service" at the head of the tabulation.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

During the past few years most of the urban municipal utilities have further simplified the domestic rate structure by abolishing the service charge,

*Except municipalities, chiefly townships, served as parts of rural power districts, for which consult Appendix II.

†R.S.O. 1937, Ch. 62, Sec. 89.

and making a suitable adjustment in the first consumption rate. Where the service charge is retained at 33 and 66 cents gross per month the charge of 33 cents per month per service is made when the permanently installed appliance load is under 2,000 watts, and the charge of 66 cents per month when 2,000 watts or more.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Water-Heater Service: For all consumers using continuous electric water heaters, low flat rates are available consisting of a fixed charge per month dependent on the capacity of the heating element and the cost of power to the municipal utility. Such heaters are so connected that the electrical energy they consume is not metered. In addition, booster water-heating equipment can be used to furnish extra requirements beyond the capacity of the continuous heater; current for the booster heater is measured and charged for at the regular rates.

Power Service: The rate schedules given for power service in Statement "C" are those governing the supply of power at retail by each of the local municipal utilities. The Commission serves direct, certain large power consumers under special contracts, on behalf of the systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where load conditions and other circumstances permit, lower rates are available for "restricted power", discounts additional to those listed in the table being applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Early in 1949 the Commission changed the method of billing the power demand of industrial power consumers by using kilowatt instead of horsepower. This does not constitute a change in power cost to the consumer, but is used to simplify billing procedure. In the table below the actual basic rate, i.e. the net yearly charge computed by assuming 130 hours monthly use of one horsepower in force during 1949 is shown as in previous years, but the former service charge per horsepower per month is now shown as the equivalent service charge per kilowatt per month. In cases where special local discounts were in force equivalent reductions in service charge and energy rates have been incorporated.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours' monthly use of demand per hp." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for
for the Year 1949, in Urban Municipalities

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a kilowatt basis	Domestic service					
		Service charge per month**	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Acton.....T	33.47	.....	60	2.3	1.0	0.83	10
Agincourt.....	35.78	.....	60	3.0	1.0	0.83	10
Ailsa Craig.....	41.31	.....	60	2.5	0.9	0.83	10
Alexandria.....T	38.86	.....	60	3.0	1.0	1.11	10
Alliston.....T	35.50	.....	55	3.5	1.0	1.11	10
Almonte.....T	35.86	.....	60	2.5	1.0	0.83	10
Alvinston.....	52.21	.....	60	3.5	1.0	0.83	10
Amherstburg.....T	37.89	.....	60	2.5	0.9	0.83	10
Ancaster Twp.....	37.86	.....	60	3.4	1.0	0.83	10
Apple Hill.....	35.50	.....	60	4.0	1.0	1.39	10
Arkona.....	47.17	.....	60	4.0	1.0	1.11	10
Arnprior.....T	30.78	.....	60	2.8	0.8	0.83	10
Arthur.....	45.38	.....	45	4.5	1.2	1.11	10
Athens.....	46.18	33-66	50	4.5	1.5	1.11	10
Atikokan.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Aurora.....T	31.13	.....	60	2.6	1.0	0.83	10
Aylmer.....T	35.96	.....	60	2.2	0.8	0.83	10
Ayr.....	38.50	.....	60	2.7	1.0	1.11	10
Baden.....	32.82	.....	60	2.4	0.9	0.83	10
Bala.....	.....	33-66	50	3.7	1.2	1.66	10
Barrie.....T	28.50	.....	60	2.4	0.8	0.83	10
Bath.....	51.22	.....	60	4.8	1.5	2.22	10
Beachville.....	34.00	.....	60	2.8	0.9	0.83	10
Beamsville.....	32.22	.....	60	2.2	0.8	0.83	10
Beardmore.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Beaverton.....	35.98	.....	60	2.8	1.0	1.11	10
Beeton.....	45.00	.....	45	4.0	1.2	1.39	10
Belle River.....	39.68	.....	60	3.0	0.9	1.11	10
Belleville.....C	28.03	.....	55	1.8	0.6	0.83	10
Blenheim.....T	39.77	.....	60	2.3	0.8	0.83	10

**Where domestic service charge has not been abolished the charge is 33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when 2,000 watts or more. Where a service charge of 56 cents is used it applies to either 2-wire or 3-wire service. *2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs. ‡2-wire service. †3-wire service.

“C”

Domestic Service—Commercial Light Service—Power Service

Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.6	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.0	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.6	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	3.2	0.9	1.11	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	2.3	1.0	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.0	0.9	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.9	0.7	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.5	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.5	0.8	1.11	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	2.5	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	4.0	1.0	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	4.5	1.0	1.11	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.6	0.4	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	1.8	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.2	0.7	1.11	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.0	0.6	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	3.7	0.8	1.66	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	5.0	1.0	2.22	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.4	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.8	1.11	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.5	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.5	0.5	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
4.5	1.5	0.3	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	1.8	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10

†2-wire service.

‡3-wire service.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1949, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Bloomfield.....	45.45	.....	60	2.5	0.9	0.83	10
Blyth.....	38.98	.....	60	2.9	1.0	1.11	10
Bobcaygeon.....	52.19	.....	60	5.0	1.25	2.22	10
Bolton.....	37.36	.....	60	2.9	1.0	0.83	10
Bothwell.....	46.26	.....	60	2.2	0.75	0.83	10
Bowmanville.....T	33.14	.....	60	2.8	0.9	0.83	10
Bradford.....	35.52	.....	45	4.2	1.0	1.39	10
Braeside.....T	31.64	.....	50	4.0	1.3	0.83	10
Brampton.....T	30.05	.....	60	2.1	0.9	0.83	10
Brantford.....C	30.33	.....	60	1.8	0.8	0.83	10
Brantford Twp.....	31.03	.....	60	2.8	1.0	1.11	10
Brechin.....	34.11	.....	45	5.5	1.2	1.67	10
Bridgeport.....	34.74	.....	60	3.0	0.9	0.83	10
Brigden.....	49.69	.....	60	3.0	0.9	1.11	10
Brighton.....	33.36	.....	60	3.5	0.9	0.83	10
Brockville.....T	30.51	.....	60	1.8	0.7	0.83	10
Brussels.....	40.81	.....	60	3.2	1.0	1.11	10
Burford.....	34.53	.....	60	2.3	0.8	0.83	10
Burgessville.....	36.75	.....	60	4.0	1.0	1.11	10
Burlington.....T	30.79	.....			Special		
Burlington Beach or Hamilton Beach....		.....	60	3.5	1.1	0.83	10
Caledonia.....	34.67	.....	60	2.1	0.9	0.83	10
Campbellville.....	43.70	.....	60	2.8	1.0	1.11	10
Cannington.....	34.45	.....	60	3.2	1.0	1.11	10
Capreol.....		.....	50	3.6	1.0	1.39	10
Cardinal.....	32.74	.....	55	2.5	1.0	1.11	10
Carleton Place.....T	32.43	.....	55	2.5	0.9	0.83	10
Cayuga.....	44.50	.....	60	3.5	1.0	1.39	10
Chatham.....C	32.18	.....	60	2.8	0.8	0.83	10
Chatsworth.....	35.39	.....	50	3.0	1.0	1.39	10
Chesley.....	32.56	.....	55	2.5	0.8	1.11	10
Chesterville.....	33.09	.....	55	2.3	0.9	0.83	10
Chippawa.....	25.75	.....	60	2.0	0.8	0.83	10
Clifford.....	42.20	.....	55	3.3	1.1	1.11	10
Clinton.....T	36.11	.....	60	2.2	0.7	0.83	10
Cobden.....	41.24	.....	40	2.8	1.0	1.11	10
Cobourg.....T	33.51	.....	60	2.9	1.0	0.83	10
Colborne.....	34.26	.....	60	3.8	1.0	0.83	10
Coldwater.....	33.56	33-66	55	2.5	1.0	1.11	10
Collingwood.....T	30.95	.....	55	2.3	0.9	0.83	10

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	2.3	0.7	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.4	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	5.0	1.0	2.22	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.5	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	1.7	0.3	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.3	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.7	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	4.0	1.0	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	1.7	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
z5.0	1.5	0.35	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.4	0.6	1.11	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	4.8	0.8	1.67	10	34.00	1.35	3.4	2.2	0.33	.....	10
5.0	2.7	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.5	0.7	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.0	0.7	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
4.5	1.6	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.7	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.8	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.5	0.8	1.11	10	31.00	1.35	2.9	1.9	0.33	.....	10
			Special					Special			
5.0	3.2	0.7	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.7	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.5	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.8	0.9	1.11	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	3.2	0.8	1.39	10	31.00	1.35	2.9	1.9	0.33	.....	10
5.0	2.0	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.0	0.7	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.0	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.2	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.5	0.9	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.7	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.0	0.9	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	1.6	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.5	1.0	1.11	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	1.9	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.5	1.0	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.4	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.0	1.0	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.5	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	1.8	0.8	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10

zMinimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1949, in Urban Municipalities**

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municip- ality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Comber.....	50.33		60	2.9	0.8	0.83	10
Cookstown.....	34.11		45	4.3	1.0	1.39	10
Cottage Cove Townsite.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Cottam.....	41.91		60	3.0	1.0	0.83	10
Courtright.....	52.20		60	3.0	1.1	1.11	10
Creemore.....	34.24		50	3.1	1.0	1.39	10
Dashwood.....	45.25		60	3.5	1.0	0.83	10
Delaware.....	34.32		60	3.4	1.0	0.83	10
Delhi.....T	36.66		60	3.2	1.0	0.83	10
Deseronto.....	39.59		60	3.9	1.0	0.83	10
Dorchester.....	39.77		60	2.6	1.0	0.83	10
Drayton.....	46.02		55	4.0	1.3	1.11	10
Dresden.....	44.82		60	2.5	0.8	0.83	10
Drumbo.....	38.67		60	3.5	1.0	1.11	10
Dublin.....	42.27		60	3.5	1.1	1.11	10
Dundalk.....	34.14		60	2.7	1.0	1.11	10
Dundas.....T	29.76		60	2.2	0.8	0.83	10
Dunnville.....T	32.42		60	1.8	0.7	0.83	10
Durham.....T	33.99		55	2.5	1.0	0.83	10
Dutton.....	38.69		60	2.0	0.8	0.83	10
East York Twp.....	29.82		60	2.3	1.0	0.83	10
Elmira.....T	31.74		60	2.6	0.8	0.83	10
Elmvale.....	33.79		60	2.6	1.0	0.83	10
Elmwood.....	35.97		50	3.5	0.9	1.11	10
Elora.....	36.31		60	2.8	1.0	1.11	10
Embro.....	36.82		60	3.3	1.1	0.83	10
Erieau.....	44.38		60	3.7	1.0	1.11	10
Erie Beach.....	45.25		60	4.5	1.2	1.39	10
Erin.....			40	5.0	1.5	1.39	10
Essex.....T	37.31		60	2.3	0.8	0.83	10
Etobicoke Twp.....	30.39		60	2.5	1.0	0.83	10
Exeter.....	37.25		60	2.6	0.9	0.83	10
Fergus.....T	33.47		60	2.6	0.9	1.11	10
Finch.....	38.74		45	3.0	1.2	1.39	10
Flesherton.....	32.96		60	2.8	1.0	1.11	10
Fonthill.....	31.64		60	2.8	1.0	0.83	10
Forest.....	44.04		60	3.0	0.9	0.83	10
Forest Hill.....T	28.88		60	2.5	1.1	0.83	10
Fort William.....C	26.59		60	1.7	0.6	0.83	10
Frankford.....	36.95		60	4.5	1.2	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	2.5	0.6	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	3.8	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	.....	10
			†1.67								
5.0	3.5	1.0	†2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.6	0.8	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	3.2	1.0	1.11	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	2.6	0.9	1.39	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	3.0	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.0	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.6	0.8	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	3.5	0.9	0.83	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.1	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.4	0.7	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	3.0	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	3.0	0.8	1.11	10	34.00	1.35	3.4	2.2	0.33	.....	10
5.0	2.3	0.8	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	1.8	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.5	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	2.1	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	1.7	0.3	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.3	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.2	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	3.0	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.4	0.6	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.7	0.7	0.83	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	3.5	0.9	1.11	10	38.00	1.35	4.0	2.6	0.33	3.00	10
5.0	4.0	1.0	1.39	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	4.0	1.0	1.39	10	36.00	1.35	3.7	2.4	0.33	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.9	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.1	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.2	0.4	1.11	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.8	1.0	1.39	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.3	0.8	1.11	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	2.3	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	2.5	0.6	0.83	10	29.00	1.35	2.6	1.7	0.33	.....	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.5	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	3.5	1.0	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10

†2-wire service.

†3-wire service.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1949, in Urban Municipalities**

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Galt.....C	30.47	.....	60	2.5	0.7	0.83	10
Gamebridge.....	.....	.....	45	5.5	1.2	1.67	10
Georgetown.....T	34.83	.....	60	2.5	0.9	0.83	10
Geraldton.....T	.....	.....	60	3.7	1.2	1.11	10
Glencoe.....	52.21	.....	60	3.0	0.9	1.11	10
Glen Williams.....	.....	.....	60	2.9	1.0	0.83	10
Goderich.....T	39.06	.....	60	2.7	0.9	0.83	10
Grand Valley.....	39.22	.....	60	2.8	1.0	1.11	10
Granton.....	50.84	.....	60	3.3	1.0	0.83	10
Gravenhurst.....T	29.85	.....	60	1.8	0.7	0.83	10
Grimsby.....T	33.52	.....	60	2.2	0.8	0.83	10
Guelph.....C	30.46	.....	60	1.8	0.8	0.83	10
Hagersville.....	36.97	.....	60	2.3	0.9	0.83	10
Hamilton.....C	28.73	.....	60	2.0	0.7	0.83	10
Hanover.....T	30.20	.....	60	2.4	1.0	0.83	10
Harriston.....	40.72	.....	55	3.0	1.0	0.83	10
Harrow.....	39.46	.....	60	3.2	1.0	0.83	10
Hastings.....	35.60	.....	45	4.2	1.0	1.11	10
Havelock.....	38.34	.....	60	2.8	1.0	0.83	10
Hensall.....	41.35	.....	60	3.2	1.0	0.83	10
Hepworth.....	.....	.....	60	4.0	1.2	1.67	10
Hesper.....T	30.45	.....	60	2.7	0.8	0.83	10
Highgate.....	41.46	.....	60	3.2	0.9	0.83	10
Hislop Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Holstein.....	40.10	.....	60	3.0	1.0	1.11	10
Hudson Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Humberstone.....T	31.04	.....	60	2.2	0.8	0.83	10
Huntsville.....T	32.47	.....	60	2.0	0.9	0.83	10
Ingersoll.....T	31.97	.....	60	2.3	0.8	0.83	10
Iroquois.....	29.75	.....	60	2.5	1.0	0.83	10
Jarvis.....	43.68	.....	60	2.8	0.9	0.83	10
Kearns Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Kemptville.....	37.72	.....	55	3.2	1.0	0.83	10
Kincardine.....T	35.06	.....	50	3.1	1.0	1.11	10
King Kirkland Townsite.....	.....	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

"C"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	2.1	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	4.8	0.8	1.67	10	34.00	1.35	3.4	2.2	0.33	.....	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
			†1.67								
5.0	3.5	1.0	‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.6	0.8	1.11	10	31.00	1.35	2.9	1.9	0.33	.....	10
5.0	2.3	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.3	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.4	0.8	1.11	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.6	1.0	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.5	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.6	0.3	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	1.8	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
z5.0	1.5	0.35	0.83	10	14.50	1.00	0.9	0.56	0.25	.....	10
5.0	2.0	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.6	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.6	0.7	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	3.6	1.0	1.11	10	37.00	1.35	3.8	2.5	0.33	.....	10
5.0	2.3	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.7	0.9	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.5	1.0	1.67	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.8	0.7	0.83	10	29.00	1.35	2.6	1.7	0.33	.....	10
			†1.67								
5.0	3.5	1.0	‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.5	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	3.5	1.0	†1.67								
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.8	0.7	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.8	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	2.0	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	2.3	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
			†1.67								
5.0	3.5	1.0	‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.7	1.0	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.6	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	.....	10
			†1.67								
5.0	3.5	1.0	‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10

†2-wire service.

‡3-wire service.

zMinimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1949, in Urban Municipalities**

Municipality c—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to muni- cipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Kingston.....C	28.74	.....	50	1.8	0.6	0.83	10
Kingsville.....T	39.09	.....	60	2.6	0.9	0.83	10
Kirkfield.....	52.24	.....	50	5.0	1.2	1.66	10
Kitchener.....C	29.71	.....	60	2.0	0.9	0.83	10
Lakefield.....	32.87	.....	55	2.8	1.0	0.83	10
Lambeth.....	35.14	.....	60	2.6	0.8	0.83	10
Lanark.....	46.89	.....	50	3.8	1.2	0.83	10
Lancaster.....	52.18	.....	60	3.0	1.0	0.83	10
Larder Lake.....				Special			
La Salle.....	40.97	.....	60	3.8	1.2	1.39	10
Leamington.....T	39.11	.....	60	2.0	0.8	0.83	10
Leaside.....T		.....	50	1.8	1.0	0.83	10
Lindsay.....T	34.21	.....	60	2.3	0.8	0.83	10
Listowel.....T	36.26	.....	60	2.3	0.9	0.83	10
London.....C	30.47	.....	60	2.2	0.75	0.83	10
London Twp.....	33.70	.....	60	2.9	1.0	1.11	10
Long Branch.....T	30.75	.....	60	2.2	0.8	0.83	10
Lucan.....	36.30	.....	60	2.9	0.9	0.83	10
Lucknow.....	37.40	.....	55	2.7	1.0	1.39	10
Lynden.....	37.70	.....	60	3.0	1.0	0.83	10
MacTier.....		.....	50	4.7	1.6	1.66	10
Madoc.....	36.98	.....	60	2.8	1.0	0.83	10
Markdale.....	32.32	.....	60	2.0	1.0	0.83	10
Markham.....	32.98	.....	60	2.8	1.0	0.83	10
Marmora.....	38.00	.....	60	3.6	1.0	0.83	10
Martintown.....	32.20	.....	50	3.0	1.0	1.11	10
Matachewan Townsite.....		.....	50	4.5	1.0	1.11	10
Matheson.....		56	40	3.5	*1.6	†1.67	10
Maxville.....	37.53	.....	55	3.1	0.75	‡2.25	10
McGarry.....				Special	1.0	0.83	10
Meaford.....T	33.61	.....	60	2.6	1.0	0.83	10
Merlin.....	42.80	.....	60	2.8	0.9	0.83	10
Merrittton.....T	26.99	.....	60	2.2	0.9	0.83	10
Midland.....T	29.10	.....	60	2.3	0.8	0.83	10
Mildmay.....	34.99	.....	50	2.8	1.0	1.39	10
Millbrook.....	41.02	.....	60	4.6	1.0	0.83	10
Milton.....T	31.99	.....	60	2.8	0.9	0.83	10
Milverton.....	37.19	.....	60	2.5	1.0	0.83	10
Mimico.....T	29.29	.....	60	2.2	0.9	0.83	10
Mitchell.....	34.39	.....	60	2.8	1.0	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	1.5	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	1.9	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	4.5	1.0	1.66	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	1.8	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.4	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.3	1.0	0.83	10	38.00	1.35	4.0	2.6	0.33	.....	10
5.0	2.5	1.0	0.83	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	Special 3.3	1.0	1.39	10	27.00	1.35	Special 2.3	1.5	0.33	.....	10
5.0	1.7	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
z5.0	1.9	0.35	0.83	10	18.50	1.00	1.5	0.9	0.25	.....	10
5.0	1.9	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	1.7	0.3	0.83	10	14.00	1.00	0.83	0.53	0.25	.....	10
5.0	2.5	0.6	1.11	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.8	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.4	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.2	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.5	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	4.4	1.0	1.66	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	2.5	0.8	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.8	0.8	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.4	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	3.2	0.9	0.83	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	3.0	1.0	1.66	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.5	1.0	+1.67 +2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.5	1.0	+1.67 +2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.8	1.0	+2.25 0.83	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	Special						Special				
5.0	2.2	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	2.3	0.6	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.6	0.5	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.4	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	4.2	1.0	0.83	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.3	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.2	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	1.9	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.3	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10

†2-wire service. ‡3-wire service. zMinimum 500 watts.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for
for the Year 1949, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
Moorefield.....	\$ c. 47.13	cents	60	3.2	1.0	\$ c. 1.39	% 10
Morrisburg.....	31.19	.....	60	3.0	1.0	0.83	10
Mount Brydges.....	37.78	.....	60	2.4	0.8	0.83	10
Mount Forest.....	36.80	.....	60	2.8	1.0	0.83	10
Napanee.....T	31.99	.....	60	2.8	0.9	0.83	10
Neustadt.....	30.25	.....	60	3.0	1.0	1.39	10
Newboro.....	47.61	.....	60	5.0	1.5	3.33	10
Newburg.....	45.87	.....	60	4.0	1.0	1.39	10
Newbury.....	49.37	.....	60	4.0	1.0	1.11	10
Newcastle.....	33.35	.....	60	3.0	0.9	1.11	10
New Hamburg.....	36.12	.....	60	2.7	0.9	0.83	10
Newmarket.....T	31.95	.....	60	2.4	0.8	0.83	10
New Toronto.....T	32.50	.....	60	2.2	0.8	0.83	10
Niagara Falls.....C	23.78	.....	60	1.7	0.6	0.83	10
Niagara.....	29.19	.....	60	2.4	1.0	0.83	10
Nipigon Twp.....	30.16	.....	60	2.8	1.0	1.11	10
North Bay.....C	30.19	.....	60	2.3	0.9	0.83	10
North York Twp.....	34.18	.....	60	2.7	1.2	0.83	10
Norwich.....	33.11	.....	60	2.5	0.8	0.83	10
Norwood.....	33.92	.....	50	3.8	1.0	1.11	10
Oakville.....T	44.27	.....	60	2.8	1.2	0.83	10
Oil Springs.....	35.35	.....	60	2.6	0.9	1.11	10
Omeme.....	34.16	.....	60	3.3	1.0	0.83	10
Orangeville.....T	36.41	.....	55	2.8	1.0	1.11	10
Orono.....	32.61	.....	60	4.5	1.0	1.11	10
Oshawa.....C	27.53	.....	60	3.0	1.0	0.83	10
Ottawa.....C	38.18	33-66	60	2.0	0.5.	0.83	10
Otterville.....	30.75	.....	60	1.0			
Owen Sound.....C	37.26	.....	60	2.6	0.9	0.83	10
Paisley.....	39.00	.....	60	2.1	0.8	0.83	10
Palmerston.....	30.47	.....	50	0.8	1.0	1.39	10
Paris.....T	40.84	.....	60	4.0			
Parkhill.....	39.52	.....	60				
Parry Sound.....T	31.07	.....	60				
Penetanguishene.....T	31.87	.....	60	2.6	1.0	1.11	10
Perth.....T	29.10	.....	60	2.2	0.9	0.83	10
Peterborough.....C	41.50	.....	60	3.0	1.0	0.83	10
Petrolia.....T	34.19	.....	60	3.2	1.5	0.83	10
Picton.....T	42.51	.....	60	2.4	0.9	0.83	10
Plattsville.....			60	2.8	1.0	0.83	10
			60	2.0	0.9	0.83	10
			60	2.7	0.8	0.83	10
			60	2.0	0.8	0.83	10
			60	3.0	1.0	0.83	10

"C"—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	2.8	0.9	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.7	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	1.8	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.3	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	2.4	0.7	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.5	0.8	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	4.5	1.5	5.55	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.5	1.0	1.39	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	3.5	0.9	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.5	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.2	0.6	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.2	0.7	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.5	0.35	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	2.0	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.4	0.8	1.11	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.8	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.5	0.8	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.1	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	3.3	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.5	1.0	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.4	0.6	1.11	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	2.8	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.8	1.11	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	4.0	0.8	1.11	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.5	0.7	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.1	0.5	0.83	10	18.00	a1.00	1.8	1.2	0.15	.....	b10
5.0	2.2	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	1.8	0.7	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.5	0.8	1.39	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	2.2	0.8	1.11	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.5	0.8	0.83	10	29.00	1.35	2.6	1.7	0.33	.....	10
5.0	2.7	1.2	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	2.1	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.0	0.6	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	1.8	0.7	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	2.1	0.5	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.5	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	2.70	10

a—\$1.00 per h.p.

b—Local discount 15 & 10%.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1949, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
Point Edward.....	\$ c. 44.64	cents	60	cents 3.0	cents 1.0	\$ c. 0.83	% 10
Port Arthur.....C	26.64		50	1.7	0.6	0.83	10
Port Carling.....		33-66	45	4.7	1.5	1.66	10
Port Colborne.....T	30.92		60	2.5	0.8	0.83	10
Port Credit.....T	30.88		60	2.1	0.9	0.83	10
Port Dalhousie.....	30.56		60	2.4	1.0	0.83	10
Port Dover.....T	38.14		60	2.2	0.8	0.83	10
Port Elgin.....	37.37	33-66	40	2.5	1.2	1.11	10
Port Hope.....T	33.20		60	2.2	0.9	0.83	10
Port McNicoll.....	32.08		60	3.3	1.0	0.83	10
Port Perry.....	37.05		50	4.0	1.2	1.11	10
Port Rowan.....	50.55		60	3.0	1.0	0.83	10
Port Stanley.....	41.95		60	2.6	0.9	0.83	10
Powassan.....		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Prescott.....T	31.36		60	2.5	1.1	0.83	10
Preston.....T	30.08		60	2.5	0.8	0.83	10
Priceville.....	43.36		60	3.5	1.0	1.39	10
Princeton.....	45.60		60	3.0	1.0	1.39	10
Queenston.....	26.74		60	2.3	0.9	0.83	10
Red Lake Townsite...		56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Red Rock.....	27.63		60	3.0	1.1	†1.67 ‡2.22	10
Renfrew.....T	36.37		45	3.5	1.0	0.83	10
Richmond.....	52.21		40	4.3	1.2	1.67	10
Richmond Hill.....	31.13		60	2.2	0.8	0.83	10
Ridgetown.....T	38.53		60	2.0	0.8	0.83	10
Ripley.....	42.97		55	4.8	1.0	1.67	10
Riverside.....T	37.28		60	2.8	0.9	0.83	10
Rockwood.....	35.93		60	2.8	1.0	0.83	10
Rodney.....	44.44		60	2.4	0.8	0.83	10
Rosseau.....	52.16		60	4.0	2.0	2.22	10
Russell.....	52.18		55	4.6	1.2	1.39	10
St. Catharines.....C	27.03		60	1.8	0.8	0.83	10
St. Clair Beach.....	39.58		60	3.5	1.0	1.11	10
St. George.....	35.97		60	2.5	0.9	0.83	10
St. Jacobs.....	31.96		60	2.4	0.9	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	2.4	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
4.5	1.5	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	4.5	0.8	1.66	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	2.2	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.8	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	1.9	0.6	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.7	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.5	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	1.9	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.8	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.2	1.0	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.5	0.8	0.83	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.2	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.5	1.0	†1.67	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.2	1.0	‡2.25	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.0	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	3.0	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.7	0.8	1.39	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	1.8	0.7	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	3.5	1.0	†1.67	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.0	1.0	†1.67	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	2.0	0.5	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	4.0	1.0	1.67	10	35.00	1.35	3.5	2.3	0.33	.....	10
5.0	1.8	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	4.3	0.8	1.67	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.3	0.5	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.3	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	4.0	2.0	2.22	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	4.3	1.0	1.39	10	35.00	1.35	3.5	2.3	0.33	.....	10
25.0	1.5	1/3	a0.83	10	14.00	1.00	0.825	0.525	0.25	.....	10
5.0	3.2	0.9	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.6	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	2.0	0.6	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10

†2-wire service. ‡3-wire service. a \$0.83 or \$0.83 per kw. zMinimum 500 watts.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1949, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
c—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
St. Marys.....T	36.23	.....	60	3.0	1.0	0.83	10
St. Thomas.....C	32.12	.....	60	2.4	0.8	0.83	10
Sarnia.....C	38.67	.....	60	2.5	0.8	0.83	10
Scarborough Twp.....	31.41	.....	60	2.3	0.9	0.83	10
Schreiber.....	27.14	.....	60	5.0	2.0	3.89	10
Seaforth.....	34.37	.....	60	2.6	1.0	0.83	10
Shelburne.....	34.70	.....	60	2.7	1.0	1.11	10
Simcoe.....T	31.72	.....	60	2.0	0.7	0.83	10
Sioux Lookout.....T	.....	.....	60	4.0	1.5	2.00	10
Smiths Falls.....T	29.86	.....	60	2.5	0.8	0.83	10
Smithville.....	35.25	.....	60	3.0	0.9	0.83	10
Southampton.....	36.71	.....	40	3.2	1.0	1.11	10
Springfield.....	43.82	.....	60	3.4	0.9	0.83	10
Stamford Twp.....	23.83	.....	60	2.3	0.8	0.83	10
Stayner.....	32.61	.....	55	3.0	1.0	0.83	10
Stirling.....	28.90	.....	60	2.3	0.9	0.83	10
Stoney Creek.....	33.58	.....	60	3.5	1.1	0.83	10
Stouffville.....	33.35	.....	60	2.1	0.8	0.83	10
Stratford.....C	32.28	.....	60	2.6	0.9	0.83	10
Strathroy.....T	33.86	.....	60	2.6	0.8	0.83	10
Streetsville.....	32.71	.....	60	2.8	1.0	0.83	10
Sudbury.....C	.....	.....	60	2.4	1.0	0.83	10
Sunderland.....	35.81	.....	60	3.5	1.0	1.11	10
Sutton.....	39.51	.....	60	2.7	1.0	1.11	10
Swansea.....T	32.61	.....	60	2.1	0.9	0.83	10
Tara.....	37.84	.....	55	2.6	1.0	1.11	10
Tavistock.....	34.98	.....	60	2.5	0.9	0.83	10
Tecumseh.....T	38.47	.....	60	3.0	0.9	0.83	10
Teeswater.....	38.43	.....	60	3.0	1.0	1.11	10
Terrace Bay.....	27.83	56	40	3.5	*1.6 0.75	†1.67 ‡2.25	10
Thamesford.....	38.21	.....	60	2.7	0.9	0.83	10
Thamesville.....	40.85	.....	60	2.1	0.8	0.83	10
Thedford.....	45.05	.....	60	3.6	1.0	0.83	10
Thornbury.....	41.27	.....	60	3.5	1.0	0.83	10
Thorndale.....	37.80	.....	60	3.8	1.0	0.83	10
Thornton.....	52.15	.....	60	3.8	1.0	1.39	10
Thorold.....T	27.52	.....	60	1.8	0.7	0.83	10
Tilbury.....T	38.34	.....	60	2.0	0.75	0.83	10
Tillsonburg.....T	33.20	.....	60	2.2	0.75	0.83	10
Toronto.....C	28.97	.....	50	1.8	1.0	0.83	10

*2-wire service next 80 kw-hrs, 3-wire service next 180 kw-hrs.

†2-wire service. ‡3-wire service.

“C”—Continued

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	2.5	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	1.7	0.3	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	1.9	0.4	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	1.8	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	5.0	2.0	3.89	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.1	0.7	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.3	0.9	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.5	2.0	a1.00	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.3	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.5	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.8	0.8	1.11	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.9	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.5	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.3	0.9	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.8	0.8	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.2	0.7	0.83	10	27.00	1.35	2.3	1.5	0.33	.....	10
5.0	1.8	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.0	0.4	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	2.3	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.4	0.8	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	3.0	0.8	1.11	10	33.00	1.35	3.2	2.1	0.33	.....	10
5.0	2.4	0.7	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	1.7	0.5	0.83	10	18.00	1.00	1.4	0.9	0.25	.....	10
5.0	2.2	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.0	0.5	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	2.5	0.5	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	2.6	0.8	1.11	10	34.00	1.35	3.4	2.2	0.33	.....	10
5.0	3.5	1.0	†1.67 ‡2.25	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.1	0.6	0.83	10	21.00	1.20	1.6	1.0	0.30	.....	10
5.0	1.7	0.4	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.2	0.7	0.83	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	3.0	0.8	0.83	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.2	0.9	0.83	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	3.3	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.3	0.35	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	1.6	0.4	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.7	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
z5.0	1.9	0.35	0.83	10	18.50	1.00	1.5	0.9	0.25	.....	10
						b D.C.	3.2	1.2	0.60		

a Per 100 watts—min. \$2.00, max. \$5.00. z Minimum 500 watts.
b D.C.—Service charge \$1.50 per kw per month for first 7½ kw plus \$1.05 per kw for all additional demand.

STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for
for the Year 1949, in Urban Municipalities**

Municipality c—City t—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a kilowatt basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hrs. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Toronto Twp.	31.59	.....	60	2.7	1.0	1.11	10
Tottenham.	47.74	.....	50	3.5	1.0	1.39	10
Trafalgar Twp.	33.82	a28	60	3.5	1.5	b0.83	10
Trenton. T	27.57	.....	60	1.8	0.6	0.83	10
Tweed.	40.51	.....	50	3.8	1.0	0.83	10
Uxbridge.	37.90	.....	60	3.1	1.0	1.11	10
Victoria Harbour.	37.23	.....	60	2.4	0.9	1.11	10
Walkerton. T	30.24	.....	50	3.2	1.1	1.11	10
Wallaceburg. T	35.97	.....	60	2.6	0.8	0.83	10
Wardsville.	50.46	.....	60	3.6	0.9	1.11	10
Warkworth.	40.45	.....	50	3.5	1.2	1.11	10
Waterdown.	33.67	.....	60	2.2	0.8	0.83	10
Waterford.	32.99	.....	60	2.1	0.8	0.83	10
Waterloo. C	30.02	.....	60	1.8	0.7	0.83	10
Watford.	44.71	.....	60	3.0	1.0	0.83	10
Waubashene.	31.88	.....	55	3.0	1.0	1.11	10
Welland. C	27.01	.....	60	1.7	0.6	0.83	10
Wellesley.	37.98	.....	60	2.8	1.0	0.83	10
Wellington.	34.52	.....	60	2.5	0.9	0.83	10
West Lorne.	40.90	.....	60	2.4	0.8	0.83	10
Weston. T	29.13	.....	60	2.0	0.8	0.83	10
Westport.	52.22	.....	50	4.0	1.0	1.94	10
Wheatley.	44.27	.....	60	2.5	0.8	0.83	10
Whitby. T	32.16	.....	60	2.5	0.9	0.83	10
Wiarton. T	39.06	.....	50	2.8	0.9	1.11	10
Williamsburg.	31.68	.....	60	2.0	0.8	0.83	10
Winchester.	34.80	.....	60	2.3	1.0	0.83	10
Windsor. C	52.24	.....	60	4.0	1.5	2.22	10
Windsor. C	33.78	.....	60	2.6	0.7	0.83	10
Wingham. T	35.71	.....	50	3.2	1.1	1.11	10
Woodbridge.	32.04	.....	60	2.4	0.8	0.83	10
Woodstock. C	30.56	.....	60	2.3	0.75	0.83	10
Woodville.	40.39	.....	50	3.8	1.0	1.11	10
Wyoming.	45.71	.....	60	3.0	0.9	0.83	10
York Twp.	28.77	.....	60	2.0	0.8	0.83	10
Zurich.	47.61	.....	60	3.6	1.0	0.83	10

a Service charge in former Area No. 2. b Under 10 kw, 83 cents; over 10 kw \$2.22 in former Area No. 1; under 10 kw, \$1.11; over 10 kw \$2.22 in former Area No. 2.

“C”—Concluded

Domestic Service—Commercial Light Service—Power Service
Served by The Hydro-Electric Power Commission

Commercial Light service					Power service						
Service charge per 100 watts min. 1,000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours' monthly use of demand per h.p.	Service charge per kw. per month	First 50 hrs. per month per kw-hr.	Second 50 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum per kw. per month	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%
5.0	2.2	0.6	1.11	10	20.00	1.20	1.4	0.9	0.30	.....	10
5.0	3.0	1.0	1.39	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	2.8	0.7	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	1.6	0.3	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.3	1.0	0.83	10	29.00	1.35	2.6	1.7	0.33	.....	10
5.0	2.7	0.8	1.11	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	2.0	0.7	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.4	0.9	1.11	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	2.0	0.5	0.83	10	19.00	1.00	1.5	1.1	0.25	.....	10
5.0	3.2	0.8	1.11	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	3.0	1.0	1.11	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	1.6	0.5	0.83	10	16.00	1.00	1.1	0.7	0.25	.....	10
5.0	1.6	0.4	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.6	0.8	0.83	10	26.00	1.35	2.2	1.4	0.33	.....	10
5.0	2.2	1.0	1.11	10	33.00	1.35	3.2	2.1	0.33	.....	10
5.0	1.5	0.3	0.83	10	14.00	1.00	0.8	0.5	0.25	.....	10
5.0	2.4	0.8	0.83	10	23.00	1.20	1.9	1.3	0.30	.....	10
5.0	2.3	0.7	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.1	0.5	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	1.5	0.4	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	3.5	1.0	1.94	10	39.00	1.35	4.1	2.7	0.33	.....	10
5.0	2.4	0.5	0.83	10	25.00	1.35	2.0	1.3	0.33	.....	10
5.0	2.0	0.6	0.83	10	24.00	1.20	2.1	1.4	0.30	.....	10
5.0	2.3	0.8	1.11	10	33.00	1.35	3.2	2.1	0.33	.....	10
5.0	2.0	0.8	0.83	10	32.00	1.35	3.1	2.0	0.33	.....	10
5.0	1.8	0.8	0.83	10	22.00	1.20	1.7	1.2	0.30	.....	10
5.0	4.0	1.5	2.22	10	39.00	1.35	1.1	2.7	0.33	.....	10
5.0	2.1	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	2.6	0.8	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.0	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	1.7	0.4	0.83	10	15.00	1.00	1.0	0.6	0.25	.....	10
5.0	2.8	0.8	1.11	10	28.00	1.35	2.5	1.6	0.33	.....	10
5.0	2.5	0.6	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10
5.0	1.8	0.5	0.83	10	17.00	1.00	1.3	0.8	0.25	.....	10
5.0	3.1	0.8	0.83	10	30.00	1.35	2.8	1.8	0.33	.....	10

STATEMENT "D"

Statistics Relating to the Supply of Electrical Energy to Consumers in Urban Municipalities Served by The Hydro-Electric Power Commission

The following tabulation gives much information that is useful and interesting from the standpoint of consumers. Statement "D" lists the revenue, the consumption, the number of consumers, unit average costs and consumptions and other pertinent data for each main class of service in each urban municipal utility receiving power at cost from the Commission.

In the past the Commission has extended the benefits of electrical service to every community that could be reached economically by transmission lines. This practice is still the Commission's policy. Some municipalities are so distant from a source of supply and others have such small power requirements that the charge for delivering power is unavoidably higher than for communities more favourably situated. Even where difficult conditions obtain, however, service is provided if the consumers are able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D" respecting the average cost to the consumer. It will be observed that the total amount of energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D", and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 35 kilowatts. The Commission serves certain large power consumers direct on behalf of the systems of municipalities.

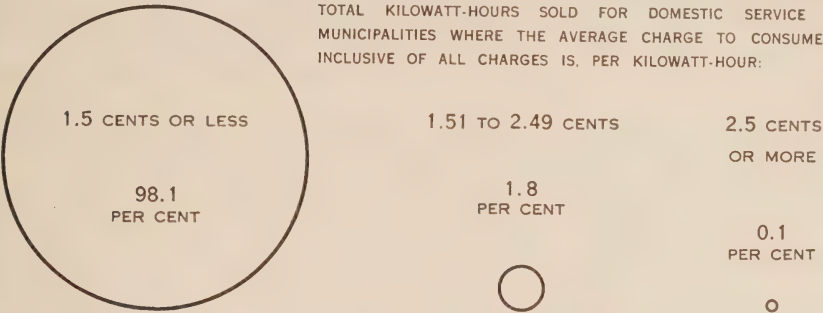
It should be kept in mind that the revenues reported in Statement "D", and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and provide, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should also be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give misleading results. The average cost per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE TO CONSUMERS
IN MUNICIPALITIES SERVED BY
THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

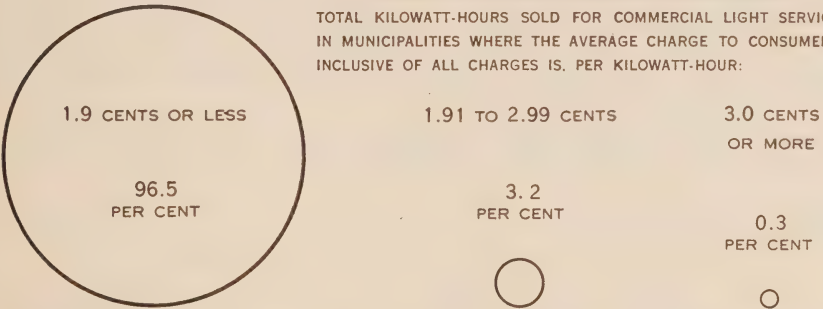
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



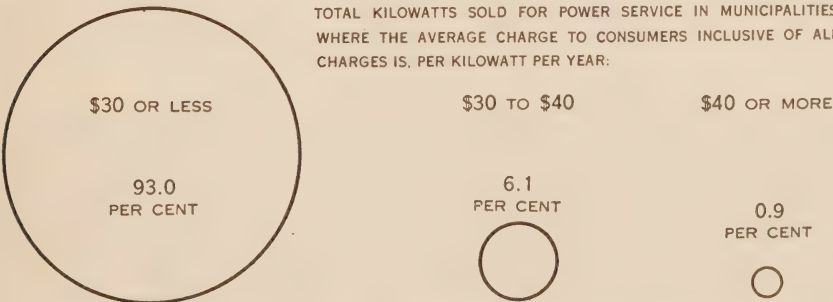
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATTS SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT PER YEAR:



For domestic service, for example, instances may be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 50 per cent or more. Such variations are due principally to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

For power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in kilowatts (or horsepower)—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which determines the energy consumption in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per kilowatt to the consumer will vary with the consumers' average number of hours use of the power per month. A greater average energy consumption per kilowatt increases the average cost per kilowatt and decreases the average cost per kilowatt-hour to the consumer, and *vice versa*.*

*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community a lower "average revenue per kilowatt-hour."

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	\$	kw-hr.	cents	\$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	....	130,000	10,000,000	....	142,500
Average revenue....	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent higher than in Case B, but the average revenue per kilowatt-hour is nearly 9 per cent less.

In this instance, the explanation lies in the relative quantities of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil a function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for making comparisons. In researches respecting rates to consumers therefore the actual *rates schedules* of Statement "C" should be employed and not statistics of average revenues per kilowatt-hour.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as given in Statement "C", or on the statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) suburban areas densely populated; (iii) towns of 2,000 to 10,000 population; or (iv) small towns less than 2,000 population, villages, and suburban areas in townships. The populations are also given, and the situation of any municipality with respect to transmission lines and power supplies may be ascertained by consulting the maps at the end of the Report.

A feature of the electrical service in Ontario municipalities served by The Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. Of the 121 cities, towns and suburban areas with populations of 2,000 or more—in which over 90 per cent of the domestic consumers of the undertaking are served—115 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, 84 in excess of 2,500 kilowatt-hours and 27 in excess of 3,500 kilowatt-hours. In addition 185 smaller urban municipalities have an average annual consumption per domestic consumer of 1,000 kilowatt-hours or more, including 78 in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing service "at cost"; rate schedules designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 0.8 to 1.2 cents (less 10 per cent) are in common use. The cost of electric cooking is within reach of most of the domestic consumers in Ontario. Low flat rates are also available for continuous electric water heaters.

STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group I—CITIES

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Belleville.....	S.O.	17,637	157,857.47	22,900,478	4,990	382	2.64	0.69
Brantford.....	S.O.	35,807	249,972.77	27,865,398	9,458	246	2.20	0.89
Chatham.....	S.O.	20,263	143,156.47	10,540,673	5,394	163	2.21	1.36
Fort William.....	T.B.	33,220	340,059.52	63,358,028	9,164	576	3.09	0.54
Galt.....	S.O.	16,952	148,077.05	15,299,980	5,052	252	2.44	0.97
Guelph.....	S.O.	25,962	191,764.24	20,091,338	6,646	252	2.40	0.95
Hamilton.....	S.O.	181,623	1,207,421.32	131,744,804	50,692	217	1.98	0.91
Kingston.....	S.O.	31,375	284,300.49	37,835,462	9,466	333	2.50	0.75
Kitchener.....	S.O.	40,640	350,619.81	38,062,359	10,518	302	2.78	0.92
London.....	S.O.	91,021	728,497.57	81,612,467	23,822	285	2.55	0.89
Niagara Falls.....	S.O.	21,674	147,450.40	19,520,578	5,657	288	2.17	0.76
North Bay.....	N.O.P.	18,057	156,787.92	15,411,739	4,187	307	3.12	1.02
Oshawa.....	S.O.	28,037	326,652.87	28,425,907	7,909	299	3.44	1.15
Ottawa.....	S.O.	161,455	787,031.82	96,551,907	17,402	462	3.77	0.82
Owen Sound.....	S.O.	16,503	132,206.17	12,803,459	4,405	242	2.50	1.03
Peterborough.....	S.O.	34,948	300,931.73	36,174,642	9,189	328	2.73	0.83
Port Arthur.....	T.B.	29,165	247,865.23	36,021,320	8,176	367	2.53	0.69
St. Catharines.....	S.O.	35,436	250,979.25	28,706,353	10,089	237	2.07	0.88
St. Thomas.....	S.O.	19,135	172,579.90	19,157,807	5,176	308	2.78	0.90
Sarnia.....	S.O.	23,284	175,460.63	15,111,694	6,273	201	2.33	1.16
Stratford.....	S.O.	18,548	193,022.44	18,240,787	5,014	303	3.21	1.06
Sudbury.....	N.O.P.	41,206	373,634.46	31,441,007	9,764	268	3.18	1.18
Toronto.....	S.O.	680,000	4,896,786.31	532,443,554	156,848	283	2.60	0.92
Toronto D.C. & 60 cycle*			3,407.15	232,810	115	169	2.47	1.46
Waterloo.....	S.O.	10,680	91,515.48	11,618,818	2,864	338	2.66	0.79
Welland.....	S.O.	16,004	64,948.56	7,049,991	3,572	164	1.52	0.91
Windsor.....	S.O.	118,702	865,239.65	81,375,559	28,763	236	2.25	0.95
Woodstock.....	S.O.	13,533	120,482.02	13,261,627	4,109	269	2.44	0.91

Group II—VOTED AREAS adjacent to

Brantford Township.....	S.O.	7,200	96,213.69	8,392,202	2,589	270	3.10	1.15
East York Township.....	S.O.	53,552	472,336.93	43,775,561	15,099	242	2.61	1.08
Etcobicoke Township.....	S.O.	30,769	446,127.89	47,923,960	11,367	351	3.27	0.93
London Township.....	S.O.	2,025	24,333.48	2,176,857	671	270	3.02	1.12
North York Township...	S.O.	37,932	579,010.52	50,514,231	17,520	240	2.75	1.15
Scarborough Township...	S.O.	34,981	278,819.34	25,623,193	10,099	211	2.30	1.09
Stamford Township.....	S.O.	12,834	114,838.53	13,316,103	3,692	301	2.59	0.86
Toronto Township.....	S.O.	16,399	181,419.86	15,649,224	4,773	273	3.17	1.16
York Township.....	S.O.	90,108	694,355.59	72,977,166	25,437	239	2.27	0.95

*This—with the exception of a relatively small D.C. power load—is a special service not created by The Hydro-Electric Power Commission but acquired through the purchase of a privately-owned company. It does not include street railway power.

“D”

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1949

Population, 10,000 or more

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilo-watts	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
83,611.07	7,779,991	714	908	9.76	1.07	71,728.71	126	3,717.7	5,830
124,392.48	12,224,235	1,538	662	6.74	1.02	400,515.98	252	18,623.6	11,248
137,519.06	9,251,753	995	775	11.52	1.49	164,433.32	157	6,638.8	6,546
149,173.62	17,408,401	1,350	1,074	9.21	0.86	128,703.99	161	7,414.0	10,675
74,474.60	4,568,179	590	645	10.52	1.63	198,990.56	160	8,996.4	5,802
69,730.95	5,973,922	817	609	7.11	1.17	197,021.55	172	9,438.5	7,635
631,410.18	59,491,899	6,398	775	8.22	1.06	3,325,096.92	1,247	142,191.2	58,337
161,934.92	16,375,499	1,191	1,146	11.33	0.99	215,173.16	198	9,315.0	10,855
182,499.33	13,775,583	1,298	884	11.72	1.33	601,251.50	348	23,181.8	12,164
294,301.65	25,237,684	2,402	876	10.21	1.17	598,091.96	488	26,236.8	26,712
88,033.15	8,446,294	901	781	8.14	1.04	130,282.51	130	6,129.6	6,688
82,411.84	6,122,505	775	658	8.86	1.35	75,210.85	102	2,400.5	5,064
109,848.14	6,365,124	873	607	10.48	1.72	432,544.12	147	14,371.0	8,929
373,257.18	26,610,674	1,813	1,223	17.16	1.40	129,483.67	237	5,620.9	19,452
71,933.13	4,922,794	658	623	9.11	1.46	105,244.54	123	5,283.9	5,186
128,616.91	9,845,481	1,284	657	8.58	1.31	297,440.01	206	12,502.4	10,643
140,632.35	14,117,250	1,153	1,020	10.16	1.00	369,513.88	148	18,554.5	9,477
119,725.99	10,794,504	1,302	691	7.66	1.11	453,069.34	241	21,916.5	11,632
72,776.24	6,510,347	650	835	9.33	1.17	113,302.34	93	5,129.0	5,919
88,152.57	6,448,120	778	691	9.44	1.37	295,760.46	107	9,198.6	7,158
64,305.05	4,389,931	670	546	8.00	1.47	87,475.40	137	3,821.0	5,821
183,813.69	10,959,354	1,314	695	11.67	1.68	68,053.52	155	2,187.7	11,233
3,345,543.23	269,148,166	25,333	885	11.00	†1.24	5,542,136.85	5,251	207,556.6	187,432
33,704.77	1,017,530	217	391	12.94	3.31	214,987.01	588	6,963.9	920
32,336.41	2,883,853	302	796	8.92	1.12	103,991.06	85	3,524.2	3,251
53,046.81	4,849,483	569	710	7.77	1.09	193,845.16	99	8,898.6	4,240
494,312.17	37,145,329	3,771	821	10.92	1.33	909,690.63	604	39,328.1	33,138
68,335.62	5,331,274	552	805	10.32	1.28	127,539.00	117	5,887.7	4,778

cities and which are predominantly urban.

13,974.91	779,304	119	546	9.79	1.79	14,935.63	17	539.8	2,725
50,808.75	3,887,020	611	530	6.93	1.31	75,581.52	83	3,396.9	15,793
85,434.23	6,240,406	717	725	9.93	1.37	130,390.46	129	5,167.1	12,213
2,991.49	192,959	19	846	13.12	1.55	1,417.46	4	36.1	694
87,348.93	4,869,360	816	497	8.92	1.80	136,246.94	134	5,822.5	18,470
59,622.98	4,346,208	729	497	6.82	1.38	70,954.06	108	2,776.2	10,936
27,350.12	1,801,799	248	605	9.19	1.52	28,009.44	28	1,291.1	3,968
37,577.39	2,361,174	365	539	8.58	1.59	80,798.76	85	2,966.3	5,223
129,771.52	9,416,916	1,474	532	7.34	1.38	238,737.89	286	9,946.2	27,197

NOTE—The above groups comprising 27 cities and 9 suburban areas utilize about 80 per cent of the power distributed by the Commission to Ontario municipalities.
†Does not include street railway power.

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—TOWNS

Municipality	System	Population	Domestic service					
			Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Acton.....	S.O.	2,412	24,574.01	2,448,273	766	266	2.67	1.00
Alexandria.....	S.O.	2,194	13,963.18	855,914	540	132	2.15	1.63
Alliston.....	S.O.	2,009	19,595.22	1,387,555	517	224	3.16	1.40
Almonte.....	S.O.	2,623	22,972.98	2,200,298	723	254	2.65	1.04
Amherstburg.....	S.O.	3,313	35,564.18	3,458,820	897	321	3.30	1.03
Arnprior.....	S.O.	4,552	30,304.80	2,632,711	1,091	201	2.32	1.15
Aurora.....	S.O.	3,392	37,155.56	3,496,742	962	303	3.22	1.06
Aylmer.....	S.O.	3,280	23,723.40	2,315,244	899	215	2.20	1.02
Barrie.....	S.O.	11,914	121,051.20	12,165,045	3,098	327	3.20	0.98
Blenheim.....	S.O.	2,272	12,780.39	895,733	686	109	1.55	1.42
Bowmanville.....	S.O.	4,315	50,804.89	4,397,308	1,517	241	2.78	1.15
Brampton.....	S.O.	7,124	73,213.88	7,464,770	2,003	311	3.05	0.98
Brockville.....	S.O.	11,852	92,279.03	10,162,516	3,634	233	2.12	0.91
Burlington.....	S.O.	5,105	64,662.17	5,035,994	1,509	278	3.57	1.30
Carleton Place.....	S.O.	4,408	32,736.09	2,937,761	1,248	196	2.19	1.10
Clinton.....	S.O.	2,409	23,700.99	2,546,092	716	296	2.75	0.93
Cobourg.....	S.O.	6,459	64,767.09	5,653,526	1,842	256	2.93	1.14
Collingwood.....	S.O.	6,729	49,814.78	4,087,922	2,020	176	2.06	1.22
Delhi.....	S.O.	2,410	21,917.53	1,528,800	770	165	2.37	1.44
Dundas.....	S.O.	6,089	38,772.62	3,468,913	1,800	161	1.80	1.12
Dunnville.....	S.O.	3,997	18,964.58	1,571,167	1,216	108	1.30	1.21
Durham.....	S.O.	2,158	13,238.75	963,996	548	147	2.01	1.40
Elmira.....	S.O.	2,330	23,465.86	2,256,825	678	277	2.88	1.04
Essex.....	S.O.	2,253	14,461.07	1,113,032	709	131	1.70	1.30
Exeter.....	S.O.	2,364	29,284.25	2,537,880	752	281	3.25	1.15
Fergus.....	S.O.	3,195	30,035.50	2,534,120	923	229	2.71	1.18
Forest Hill.....	S.O.	15,629	244,649.48	26,813,967	4,276	523	4.77	0.91
Georgetown.....	S.O.	3,150	40,682.65	3,779,323	1,122	281	3.02	1.08
Goderich.....	S.O.	*4,906	53,329.21	4,534,426	1,614	234	2.75	1.18
Gravenhurst.....	S.O.	*3,431	23,535.67	2,744,164	919	249	2.13	0.86
Grimsby.....	S.O.	2,457	20,767.82	2,098,542	819	214	2.11	0.99
Hanover.....	S.O.	3,646	36,629.56	2,762,852	1,040	221	2.94	1.33
Hespeler.....	S.O.	3,614	28,597.39	2,504,459	951	219	2.51	1.15
Humberstone.....	S.O.	3,411	17,378.63	1,316,180	913	120	1.59	1.32
Huntsville.....	S.O.	*3,180	25,992.69	2,753,915	833	276	2.60	0.94
Ingersoll.....	S.O.	6,234	47,169.53	4,197,835	1,765	198	2.23	1.13
Kincardine.....	S.O.	*2,857	24,417.70	1,734,741	855	169	2.38	1.41
Kingsville.....	S.O.	*2,489	20,646.02	1,581,137	806	163	2.13	1.31
Leamington.....	S.O.	*7,221	42,469.07	3,717,695	2,033	152	1.74	1.14
Lindsay.....	S.O.	8,904	82,332.12	7,879,370	2,617	251	2.62	1.04

*Does not include summer population.

“D”—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1949

population 2,000 or more

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw.-hr.	Revenue	Number of con- sumers	Average monthly kilo- watts	
\$ c.	kw.-hr.		kw.-hr.	\$ c.	cents	\$ c.			
9,730.88	673,962	109	515	7.44	1.40	37,657.73	22	1,446.8	897
11,998.00	557,366	140	332	7.14	2.15	6,082.81	17	158.6	697
10,619.65	504,017	134	313	6.60	2.10	8,742.36	24	284.4	675
9,319.36	528,759	116	380	6.69	1.76	21,253.69	26	775.9	865
15,895.92	1,367,604	187	609	7.08	1.16	14,096.19	22	553.1	1,106
17,111.37	1,008,373	178	472	8.01	1.70	26,826.17	29	1,136.4	1,298
12,882.95	1,045,484	144	605	7.46	1.23	29,714.53	29	1,128.5	1,135
17,049.42	1,290,792	198	543	7.18	1.32	22,533.67	27	907.4	1,124
59,064.05	4,172,721	496	701	9.95	1.42	58,328.20	81	2,369.9	3,675
12,957.87	755,517	163	386	6.62	1.72	11,236.36	23	398.5	872
17,007.40	942,616	199	395	7.12	1.80	71,697.16	32	2,944.1	1,748
27,042.02	1,967,631	310	529	7.27	1.37	30,635.66	68	1,370.2	2,381
37,035.86	3,399,784	467	607	6.61	1.09	135,740.84	86	5,555.9	4,187
27,345.76	1,666,739	175	794	13.02	1.60	23,986.72	24	606.6	1,708
14,416.65	821,327	218	314	5.51	1.76	35,017.71	21	1,385.4	1,487
11,707.86	791,142	150	440	6.50	1.48	8,340.45	21	336.2	887
29,167.22	1,777,682	269	551	9.03	1.64	46,292.72	65	1,732.3	2,176
22,327.79	1,475,013	337	365	5.52	1.51	43,680.84	62	1,955.1	2,419
18,576.55	877,496	223	328	6.94	2.12	8,074.86	22	279.5	1,015
22,384.22	1,679,856	256	547	7.29	1.33	51,397.93	46	2,514.2	2,102
18,349.28	1,384,372	298	387	5.13	1.33	25,277.22	34	1,107.2	1,548
7,852.70	426,578	122	291	5.36	1.80	7,482.28	18	244.0	688
14,887.23	969,527	142	569	8.74	1.54	34,579.14	28	1,210.3	848
13,092.08	1,021,613	149	571	7.32	1.28	10,830.02	22	522.1	880
14,216.21	866,055	155	466	7.64	1.64	8,093.09	22	407.5	929
11,202.93	696,668	128	454	7.29	1.61	27,226.31	17	1,035.4	1,068
48,627.90	3,367,926	372	754	10.89	1.44	6,192.87	39	264.5	4,687
14,610.70	901,697	167	450	7.29	1.62	43,048.38	33	1,623.2	1,322
25,778.81	1,602,769	301	444	7.14	1.61	25,658.33	44	990.2	1,959
13,973.18	1,457,051	146	832	7.98	0.96	19,592.80	23	876.3	1,088
13,896.28	1,030,295	150	572	7.72	1.35	13,325.04	21	498.7	990
12,664.02	752,684	174	361	6.07	1.68	33,455.44	34	1,230.2	1,248
11,281.00	672,185	114	491	8.25	1.68	84,586.45	32	3,103.1	1,119
8,504.09	622,563	171	303	4.14	1.37	7,551.97	15	320.1	1,099
21,223.17	1,579,645	162	813	10.92	1.34	22,888.27	23	914.4	1,018
25,529.96	1,806,645	251	600	8.48	1.41	60,408.48	52	2,611.7	2,068
12,276.83	562,067	156	300	6.56	2.18	19,802.42	24	769.5	1,035
13,636.94	816,471	117	582	9.71	1.67	6,604.91	25	288.2	948
27,565.89	2,087,270	366	475	6.28	1.32	37,299.31	51	1,488.3	2,450
50,602.01	3,104,690	403	642	10.46	1.63	47,034.97	82	2,053.9	3,102

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group III—TOWNS

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Listowel.....	S.O.	2,929	29,411.10	2,689,789	972	231	2.52	1.09
Long Branch.....	S.O.	6,677	60,971.95	6,671,741	2,121	262	2.40	0.91
Meaford.....	S.O.	2,923	24,369.60	1,744,832	927	157	2.19	1.40
Merriton.....	S.O.	3,868	30,267.40	3,318,460	1,214	228	2.08	0.91
Midland.....	S.O.	7,078	56,577.94	5,388,345	1,980	227	2.38	1.05
Milton.....	S.O.	2,316	22,394.35	1,917,437	660	242	2.83	1.17
Mimico.....	S.O.	10,164	90,844.13	9,328,176	2,640	294	2.87	0.97
Napanee.....	S.O.	3,554	38,944.48	3,471,791	1,081	269	3.01	1.12
Newmarket.....	S.O.	4,521	44,736.09	4,322,318	1,351	267	2.76	1.04
New Toronto.....	S.O.	9,156	70,176.62	7,276,426	2,338	259	2.50	0.96
Oakville.....	S.O.	5,346	46,793.54	3,187,345	1,683	158	2.32	1.50
Orangeville.....	S.O.	3,073	27,069.18	2,052,540	863	198	2.61	1.32
Paris.....	S.O.	4,980	37,284.48	3,466,084	1,321	219	2.35	1.07
Parry Sound.....	S.O.	4,627	40,981.85	2,309,824	1,389	139	2.46	1.80
Penetanguishene.....	S.O.	4,498	22,023.06	1,676,443	982	187	1.42	1.33
Perth.....	S.O.	4,666	42,286.87	3,379,957	1,317	214	2.68	1.25
Petrolia.....	S.O.	3,027	18,426.08	1,202,434	877	114	1.75	1.54
Pictou.....	S.O.	3,915	37,662.01	3,831,535	1,265	252	2.48	0.98
Port Colborne.....	S.O.	7,613	39,132.21	2,921,365	1,797	135	1.81	1.34
Port Credit.....	S.O.	2,696	30,856.97	3,507,070	836	350	3.08	0.88
Port Dalhousie.....	S.O.	*2,348	30,824.73	3,289,258	816	336	3.15	0.94
Port Dover.....	S.O.	*2,201	16,962.84	1,299,273	939	115	1.51	1.31
Port Elgin.....	S.O.	*2,486	20,627.00	1,205,797	631	159	2.72	1.70
Port Hope.....	S.O.	5,724	58,751.97	5,960,127	1,800	276	2.72	0.98
Prescott.....	S.O.	3,413	30,642.22	2,581,767	882	244	2.90	1.19
Preston.....	S.O.	7,239	56,047.03	5,381,720	1,903	236	2.45	1.04
Renfrew.....	S.O.	6,434	50,119.01	3,484,272	1,802	161	2.32	1.44
Ridgetown.....	S.O.	2,209	11,539.50	871,428	707	103	1.36	1.32
Riverside.....	S.O.	6,857	65,640.91	5,424,562	2,145	211	2.55	1.21
St. Marys.....	S.O.	3,929	46,463.00	4,112,885	1,186	290	3.26	1.12
Simcoe.....	S.O.	6,908	37,131.96	3,505,228	1,947	150	1.59	1.06
Sioux Lookout.....	N.O.P.	2,155	28,697.28	1,508,546	660	189	3.57	1.90
Smiths Falls.....	S.O.	8,335	77,102.55	7,841,147	2,378	275	2.70	0.98
Strathroy.....	S.O.	3,333	36,294.93	3,469,400	1,070	270	2.83	1.05
Swansea.....	S.O.	7,360	88,031.68	9,952,812	2,325	357	3.16	0.88
Tecumseh.....	S.O.	*3,343	21,950.45	1,402,130	892	131	2.05	1.56
Thorold.....	S.O.	6,173	28,694.50	3,374,883	1,521	185	1.57	0.85
Tilbury.....	S.O.	2,205	14,544.24	1,316,438	708	155	1.71	1.10
Tillsonburg.....	S.O.	4,727	31,732.97	2,661,646	1,483	150	1.78	1.19
Trenton.....	S.O.	9,337	68,552.74	8,996,209	2,444	306	2.33	0.75
Walkerton.....	S.O.	2,979	29,764.20	1,930,743	824	195	3.01	1.54
Wallaceburg.....	S.O.	6,920	43,804.27	3,106,109	1,924	135	1.90	1.41
Weston.....	S.O.	7,219	81,961.28	10,326,052	2,102	409	3.25	0.79
Whitby.....	S.O.	4,638	49,633.00	4,704,819	1,300	301	3.18	1.05
Wingham.....	S.O.	2,368	26,881.01	1,987,242	725	228	3.09	1.35

*Does not include summer population.

“D”—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1949

population 2,000 or more—Continued

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilowatts	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
18,283.62	1,104,559	192	479	7.94	1.66	22,623.45	34	905.9	1,198
14,808.44	1,161,670	211	459	5.85	1.27	29,805.81	23	1,294.2	2,355
15,090.17	847,879	187	378	6.72	1.78	18,274.42	26	640.4	1,140
7,380.60	451,885	83	454	7.41	1.63	242,657.02	22	9,717.3	1,319
24,338.33	1,699,277	248	571	8.18	1.43	87,142.64	66	4,043.4	2,294
10,865.11	717,030	124	502	7.30	1.52	37,470.84	21	1,209.8	805
20,198.62	1,570,447	215	609	7.83	1.29	24,022.41	40	945.5	2,895
27,221.09	1,654,009	241	571	9.41	1.64	16,800.09	30	645.9	1,352
21,320.87	1,174,930	216	453	8.23	1.81	28,481.57	44	1,026.4	1,611
29,368.31	2,764,038	288	800	8.50	1.06	257,706.56	56	9,944.3	2,682
37,283.78	1,825,695	244	624	12.73	2.00	66,016.14	66	2,551.2	1,993
18,981.17	1,108,975	206	449	7.68	1.71	8,623.86	35	476.3	1,104
12,537.22	992,433	202	409	5.17	1.26	30,595.64	31	1,382.9	1,554
27,965.74	1,276,315	272	391	8.57	2.20	10,562.58	21	371.5	1,682
12,104.49	767,348	136	470	7.42	1.58	26,395.38	23	935.6	1,141
23,519.44	1,427,501	237	501	8.27	1.65	22,670.30	35	984.9	1,589
12,777.70	746,072	194	320	5.49	1.72	24,481.38	63	756.2	1,134
26,418.99	1,982,503	275	601	8.00	1.33	14,522.71	51	726.1	1,591
26,491.66	1,727,440	274	525	8.06	1.53	24,528.81	32	937.6	2,103
11,486.66	885,621	123	600	7.78	1.29	9,784.16	17	342.6	976
6,860.63	513,703	79	542	7.24	1.34	8,970.13	14	514.2	909
10,113.55	820,732	163	420	5.17	1.23	9,456.90	22	342.7	1,124
11,496.53	550,844	148	310	6.47	2.10	5,075.22	11	253.6	790
24,011.13	1,648,256	244	563	8.20	1.45	61,891.04	47	2,400.8	2,091
15,763.29	916,397	169	452	7.77	1.72	12,566.20	27	522.6	1,078
24,685.04	1,764,427	251	586	8.20	1.40	69,936.19	60	3,202.3	2,214
22,434.55	1,362,622	257	442	7.27	1.65	52,582.37	59	1,890.4	2,118
10,474.69	657,262	164	334	5.32	1.59	8,898.10	25	410.1	896
11,325.02	769,378	104	616	9.07	1.47	9,470.42	15	316.8	2,264
17,687.75	927,199	204	379	7.22	1.91	29,734.81	41	1,061.6	1,431
40,055.89	3,584,311	446	670	7.48	1.12	38,637.23	70	1,557.7	2,463
21,395.08	804,040	121	554	14.73	2.60	3,693.79	8	96.6	789
36,365.42	2,764,497	350	658	8.66	1.32	37,953.92	47	1,561.5	2,775
18,271.25	1,083,800	211	428	7.22	1.69	20,734.88	38	976.7	1,319
15,759.22	1,076,006	144	623	9.12	1.46	28,883.00	24	1,132.3	2,493
7,772.35	473,395	87	453	7.44	1.64	8,138.95	8	193.2	987
11,233.74	1,134,999	178	531	5.26	0.99	65,017.37	33	2,614.8	1,732
10,504.89	605,610	152	332	5.76	1.73	20,207.36	20	963.1	880
27,867.27	2,018,274	330	510	7.04	1.38	27,702.53	48	1,192.7	1,861
27,717.68	2,378,395	314	631	7.35	1.16	102,063.51	61	3,814.4	2,819
19,826.62	1,052,066	176	498	9.39	1.88	16,694.12	21	356.6	1,021
28,118.54	2,000,086	309	539	7.58	1.41	194,105.04	66	6,490.5	2,299
22,227.36	1,820,525	356	426	5.20	1.22	73,589.28	46	3,097.3	2,504
18,557.90	1,221,485	196	519	7.89	1.52	22,231.39	34	820.3	1,530
16,167.76	768,556	157	408	8.55	2.10	24,092.38	26	715.4	908

STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group IV—SMALL TOWNS (less than 2,000 population)

Municipality	System	Popula- tion	Domestic service					Net cost per kw-hr.
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Agincourt.....	S.O.	P.V.	9,552.67	839,198	228	307	3.49	1.1
Ailsa Craig.....	S.O.	501	4,283.70	328,830	166	165	2.15	1.3
Alvinston.....	S.O.	668	4,403.34	186,380	236	66	1.55	2.4
Ancaster Township.....	S.O.	V.A.	18,632.38	1,561,676	442	294	3.51	1.2
Apple Hill.....	S.O.	P.V.	1,862.25	68,470	75	76	2.07	2.7
Arkona.....	S.O.	389	4,468.84	250,445	135	155	2.76	1.8
Arthur.....	S.O.	1,192	8,920.49	443,581	295	125	2.52	2.0
Athens.....	S.O.	760	7,509.77	268,329	227	99	2.76	2.8
Ayr.....	S.O.	837	8,038.52	614,990	256	200	2.62	1.3
Baden.....	S.O.	P.V.	5,947.73	523,580	181	241	2.74	1.1
Bath.....	S.O.	*368	4,861.66	174,050	94	154	4.31	2.8
Beachville.....	S.O.	P.V.	6,149.23	502,800	196	214	2.61	1.2
Beamsville.....	S.O.	1,591	17,207.98	2,007,588	492	340	2.91	0.9
Beaverton.....	S.O.	*943	10,599.10	684,703	392	146	2.25	1.5
Beeton.....	S.O.	579	5,298.73	282,811	168	140	2.63	1.9
Belle River.....	S.O.	1,250	9,398.33	576,434	415	116	1.89	1.6
Bloomfield.....	S.O.	622	4,901.21	359,336	204	146	2.00	1.4
Blyth.....	S.O.	690	5,597.72	342,610	213	134	2.19	1.6
Bobcaygeon.....	S.O.	*1,080	13,700.96	464,637	435	89	2.62	2.9
Bolton.....	S.O.	796	8,002.04	672,120	225	249	2.96	1.0
Bothwell.....	S.O.	704	3,576.63	256,380	212	101	1.41	1.4
Bradford.....	S.O.	1,373	12,976.75	810,626	390	173	2.77	1.6
Braeside.....	S.O.	420	2,501.22	121,355	108	94	1.93	2.1
Brechin.....	S.O.	P.V.	2,281.29	100,080	58	144	3.28	2.8
Bridgeport.....	S.O.	P.V.	8,062.91	601,770	253	198	2.66	1.3
Brigden.....	S.O.	P.V.	2,825.24	143,600	139	86	1.69	2.0
Brighton.....	S.O.	1,947	15,971.49	1,116,261	562	165	2.37	1.4
Brussels.....	S.O.	772	7,627.60	458,370	283	135	2.25	1.7
Burford.....	S.O.	P.V.	8,533.23	860,006	269	266	2.64	1.0
Burgessville.....	S.O.	P.V.	2,586.67	152,987	67	190	3.22	1.7
Caledonia.....	S.O.	1,500	10,152.93	739,289	503	122	1.68	1.4
Campbellville.....	S.O.	P.V.	2,170.78	153,145	64	199	2.83	1.4
Cannington.....	S.O.	818	8,228.26	506,416	302	140	2.27	1.6
Capreol.....	N.O.P.	1,775	19,064.45	1,292,675	517	208	3.07	1.5
Cardinal.....	S.O.	1,711	12,632.00	1,005,680	440	190	2.39	1.3

*Does not include summer population.

“D”—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly kilo- watts	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
3,182.80	157,753	35	376	7.58	2.0	5,693.59	6	183.6	269
1,610.17	79,713	54	123	2.48	2.0	2,131.59	5	74.9	225
3,662.15	162,586	57	238	5.30	2.2	1,575.76	5	54.4	298
6,127.99	285,148	52	457	9.82	2.1	1,808.96	11	75.8	505
1,103.51	48,816	25	163	3.68	2.3	329.97	1	14.4	101
2,317.23	87,338	39	187	4.95	2.7	148.15	1	3.7	175
7,982.79	357,528	84	355	7.92	2.2	1,900.74	8	85.0	387
3,468.79	115,413	43	224	6.72	3.0	666.65	2	27.1	272
3,591.79	182,294	50	304	5.99	2.0	4,812.36	9	185.9	315
2,364.15	162,050	33	409	5.97	1.5	11,820.72	3	455.4	217
1,095.87	38,410	17	188	5.39	2.9	213.44	1	19.4	112
876.10	46,464	26	149	2.81	1.9	20,475.75	4	636.4	226
6,778.83	492,502	90	456	6.28	1.4	3,185.93	9	150.3	591
4,995.14	309,078	74	348	5.63	1.6	3,553.09	11	231.7	477
3,914.65	145,530	41	298	7.96	2.7	1,354.43	6	48.9	215
5,022.88	358,186	63	474	6.64	1.4	2,437.62	6	70.1	484
3,265.44	163,860	51	268	5.33	2.0	1,928.16	8	75.7	263
3,277.07	161,421	58	232	4.71	2.0	5,925.00	7	147.4	278
8,493.73	271,868	89	255	7.95	3.1	1,049.19	5	29.3	529
3,913.28	181,050	54	279	6.04	2.2	3,465.93	15	144.9	294
2,860.61	197,980	68	243	3.51	1.4	1,842.88	10	104.0	290
11,351.48	572,956	96	497	9.85	2.0	11,175.64	20	374.8	506
581.34	20,915	9	194	5.38	2.8	5,929.61	3	187.7	120
1,328.17	39,710	17	195	6.51	3.3	787.26	2	23.6	77
2,704.09	146,126	28	435	7.77	1.8	2,609.25	5	95.0	286
2,219.71	108,510	47	192	3.94	2.1	3,448.98	6	105.9	192
6,991.46	430,898	125	287	4.66	1.6	6,261.61	10	274.2	697
4,104.50	222,540	70	265	4.89	1.9	3,934.34	9	120.2	362
3,267.51	228,362	51	373	5.34	1.4	2,557.11	5	113.8	325
924.54	40,977	19	180	4.06	2.3	1,498.71	3	56.4	89
7,537.95	498,432	115	361	5.46	1.5	3,511.11	11	126.4	629
545.34	29,877	11	226	4.13	1.8	391.70	1	6.8	76
3,710.20	155,177	74	175	4.18	2.4	3,530.62	11	144.1	387
5,792.07	285,310	69	344	6.99	2.0	9,049.71	2	207.9	588
3,816.39	227,670	65	292	4.89	1.7	456.42	3	20.9	508

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Cayuga.....	S.O.	710	5,742.58	281,542	205	114	2.33	2.0
Chatsworth.....	S.O.	392	3,668.30	242,050	126	160	2.43	1.5
Chesley.....	S.O.	1,772	14,977.50	1,357,734	521	217	2.40	1.1
Chesterville.....	S.O.	1,241	7,777.50	680,195	286	198	2.27	1.1
Chippawa.....	S.O.	1,504	10,597.97	1,122,440	449	208	1.97	0.9
Clifford.....	S.O.	436	4,452.98	269,024	147	152	2.52	1.7
Cobden.....	S.O.	691	5,383.05	388,691	224	145	2.00	1.4
Colborne.....	S.O.	1,049	11,714.23	805,419	342	196	2.87	1.5
Coldwater.....	S.O.	645	5,537.45	387,195	176	183	2.62	1.4
Comber.....	S.O.	P.V.	2,924.91	156,840	151	87	1.61	1.9
Cookstown.....	S.O.	P.V.	3,864.12	181,840	141	107	2.28	2.1
Cottam.....	S.O.	P.V.	4,216.39	261,965	162	135	2.25	1.7
Courtright.....	S.O.	455	2,678.13	126,031	127	83	1.76	2.1
Creemore.....	S.O.	750	6,296.41	400,683	210	159	2.50	1.6
Dashwood.....	S.O.	P.V.	4,103.68	268,162	122	183	2.80	1.5
Delaware.....	S.O.	P.V.	3,476.61	268,849	82	273	3.53	1.3
Deseronto.....	S.O.	1,473	14,149.37	767,540	443	144	2.66	1.8
Dorchester.....	S.O.	P.V.	4,693.78	358,237	175	171	2.24	1.3
Drayton.....	S.O.	575	5,763.32	278,226	186	125	2.58	2.1
Dresden.....	S.O.	1,935	11,053.53	688,630	578	99	1.59	1.6
Drumbo.....	S.O.	P.V.	4,091.81	263,688	116	189	2.94	1.6
Dublin.....	S.O.	P.V.	2,604.50	148,935	69	180	3.15	1.8
Dundalk.....	S.O.	711	6,047.53	390,705	243	134	2.07	1.5
Dutton.....	S.O.	818	4,174.86	325,520	253	107	1.38	1.3
Elmvale.....	S.O.	P.V.	5,903.29	396,994	223	148	2.21	1.5
Elmwood.....	S.O.	P.V.	1,924.67	87,500	97	75	1.65	2.2
Elora.....	S.O.	1,357	12,116.84	869,079	402	180	2.51	1.4
Embro.....	S.O.	485	5,954.54	419,994	147	238	3.38	1.4
Erieau.....	S.O.	*341	7,223.11	401,628	253	132	2.38	1.8
Erie Beach.....	S.O.	*50	2,110.57	58,430	108	45	1.63	3.6
Finch.....	S.O.	390	3,897.88	256,913	134	160	2.42	1.5
Flesherton.....	S.O.	447	3,431.53	204,940	147	116	1.95	1.7
Fonthill.....	S.O.	1,182	12,671.59	1,054,188	375	234	2.82	1.2
Forest.....	S.O.	1,709	19,717.69	1,579,973	575	229	2.86	1.3
Frankford†.....	S.O.	1,242	3,235.74	156,350	334	156	3.23	2.0
Glencoe.....	S.O.	918	5,788.31	303,045	280	90	1.72	1.9
Grand Valley.....	S.O.	649	4,926.21	301,150	213	118	1.93	1.6
Granton.....	S.O.	P.V.	2,616.51	166,680	90	154	2.42	1.6
Hagersville.....	S.O.	1,624	9,638.41	657,260	468	117	1.72	1.5
Harriston.....	S.O.	1,449	12,811.62	977,560	423	193	2.52	1.3

*Does not include summer population.

†3 months operation.

“D”—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw.-hr.	Revenue	Number of consumers	Average monthly kilowatts	
\$ c.	kw.-hr.		kw.-hr.	\$ c.	cents	\$ c.			
5,367.05	225,607	76	247	5.88	2.4	6,459.37	12	220.5	293
2,963.15	170,275	40	355	6.17	1.7	844.38	1	27.6	167
6,108.38	400,410	96	348	5.30	1.5	8,561.35	27	413.9	644
6,147.45	358,115	71	420	7.22	1.7	11,709.65	6	390.4	363
2,986.42	231,380	48	402	5.18	1.3	1,068.90	3	42.2	500
3,691.16	191,212	39	408	7.89	1.9	1,019.06	2	23.3	188
4,322.59	186,899	68	229	5.30	2.3	4,781.52	6	135.2	298
6,248.04	299,484	86	290	6.05	2.1	1,455.20	6	57.7	434
3,366.96	178,577	53	280	5.29	1.9	3,944.94	4	109.8	233
3,199.47	148,044	56	220	4.76	2.2	3,833.36	7	119.0	214
2,019.51	53,102	39	113	4.32	3.8	1,394.52	4	51.9	184
2,353.33	124,680	32	325	6.13	1.9	1,049.52	5	42.3	199
1,213.86	63,059	25	210	4.05	1.9	580.32	1	14.9	153
2,767.85	161,588	56	240	4.12	1.7	1,327.44	3	70.2	269
1,919.19	86,130	29	248	5.51	2.2	1,109.20	3	54.5	154
1,797.30	98,665	16	513	9.36	1.8				98
5,930.46	206,410	59	291	8.37	2.9	5,075.15	13	155.4	515
1,445.87	55,003	33	139	3.65	2.6	1,189.68	2	41.7	210
3,438.26	119,065	54	184	5.31	2.9	2,148.90	7	77.2	247
10,484.55	636,574	147	361	5.94	1.7	14,905.08	19	588.7	744
2,695.37	103,917	37	234	6.07	2.6	823.33	2	31.1	155
1,908.14	85,014	34	208	4.68	2.3	1,922.37	2	62.5	105
4,911.13	207,745	79	219	5.18	2.4	3,698.99	8	196.8	330
3,034.68	211,746	66	267	3.83	1.4	4,226.08	10	158.4	329
3,803.68	242,814	63	321	5.03	1.6	3,945.13	9	168.3	295
1,444.55	54,415	22	206	5.47	2.7	3,064.80	3	79.6	122
5,668.50	299,601	72	347	6.56	1.9	8,259.77	8	311.0	482
2,147.20	92,061	36	213	4.97	2.3	2,876.29	4	69.1	187
2,803.09	142,031	27	438	8.65	2.0	5,793.32	4	117.2	284
340.17	10,628	5	177	5.67	3.2				113
3,040.63	152,932	37	344	6.85	2.0	2,060.41	4	47.2	175
2,512.28	107,317	52	172	4.03	2.3	1,332.01	2	45.2	201
3,224.61	182,966	43	355	6.25	1.8	1,512.86	6	56.0	424
10,767.59	538,683	136	330	6.60	2.0	6,776.24	21	251.5	732
1,708.62	65,875	76	288	7.49	2.6	355.08	7	63.7	417
8,643.35	407,617	90	377	8.00	2.1	4,129.66	12	157.3	382
3,271.74	138,090	60	192	4.54	2.4	3,595.61	11	142.9	284
1,350.03	62,059	30	172	3.75	2.2	205.97	1	7.5	121
8,448.47	530,248	143	309	4.92	1.6	25,508.35	21	1,174.3	632
8,188.99	391,834	115	284	5.93	2.1	12,926.69	16	414.8	554

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Harrow.....	S.O.	1,343	19,441.32	1,555,587	424	306	3.82	1.3
Hastings.....	S.O.	803	7,533.12	384,594	308	104	2.04	1.9
Havelock.....	S.O.	1,166	7,384.21	435,937	322	113	1.91	1.7
Hensall.....	S.O.	677	7,326.06	498,320	231	180	2.64	1.5
Highgate.....	S.O.	340	2,350.36	114,920	114	84	1.72	2.1
Holstein.....	S.O.	P.V.	1,551.92	89,280	70	106	1.85	1.7
Iroquois.....	S.O.	1,029	10,769.70	839,227	341	205	2.63	1.3
Jarvis.....	S.O.	588	3,619.63	202,240	166	102	1.82	1.8
Kemptville.....	S.O.	1,465	13,668.43	984,865	454	181	2.51	1.4
Kirkfield.....	S.O.	P.V.	1,238.84	44,290	46	80	2.24	2.8
Lakefield.....	S.O.	1,667	13,486.58	1,018,957	462	184	2.43	1.3
Lambeth.....	S.O.	P.V.	5,763.19	512,042	188	227	2.55	1.1
Lanark.....	S.O.	731	5,562.96	266,850	224	99	2.07	2.1
Lancaster.....	S.O.	550	2,794.90	157,080	135	97	1.73	1.8
Larder Lake Township†..	N.O.P.	V.A.	13,920.55	543,178	441	137	3.51	2.6
La Salle.....	S.O.	1,526	19,227.85	1,230,736	413	248	3.88	1.6
Lucan.....	S.O.	850	9,238.45	823,804	238	238	3.23	1.1
Lucknow.....	S.O.	963	8,234.81	601,701	360	139	1.91	1.4
Lynden.....	S.O.	P.V.	4,216.27	334,155	121	230	2.90	1.3
Madoc.....	S.O.	1,169	9,491.86	642,021	367	146	2.15	1.5
Markdale.....	S.O.	839	5,780.37	485,003	250	162	1.93	1.2
Markham.....	S.O.	1,389	14,457.20	984,103	425	193	2.83	1.5
Marmora.....	S.O.	1,005	7,222.00	352,110	295	99	2.04	2.0
Martintown.....	S.O.	P.V.	1,693.55	106,070	69	128	2.05	1.6
Maxville.....	S.O.	812	5,141.50	304,088	206	123	2.08	1.7
McGarry†.....	N.O.P.	I.D.	13,174.26	657,356	296	247	4.94	2.0
Merlin.....	S.O.	P.V.	2,964.46	172,075	149	96	1.66	1.7
Mildmay.....	S.O.	804	6,460.64	485,650	226	179	2.38	1.3
Millbrook.....	S.O.	771	7,852.74	406,270	223	152	2.93	1.9
Milverton.....	S.O.	1,060	8,673.51	676,573	302	187	2.39	1.3
Mitchell.....	S.O.	1,799	21,454.16	1,795,253	598	250	2.99	1.2
Moorefield.....	S.O.	P.V.	2,033.02	111,540	80	116	2.12	1.8
Morrisburg.....	S.O.	1,825	15,739.76	1,101,517	508	181	2.58	1.4
Mount Brydges.....	S.O.	P.V.	4,105.78	310,333	206	126	1.66	1.3
Mount Forest.....	S.O.	1,928	16,235.83	1,085,110	584	155	2.32	1.5
Neustadt.....	S.O.	444	3,132.34	157,451	142	92	1.84	2.0
Newboro.....	S.O.	332	2,795.66	71,452	76	78	3.07	3.9
Newburgh†.....	S.O.	500	1,682.51	83,953	117	143	2.88	2.0
Newbury.....	S.O.	292	2,321.75	113,874	89	107	2.17	2.0
Newcastle.....	S.O.	*782	8,122.25	601,425	269	186	2.52	1.3

*Does not include summer population.

†5 months operation.

‡9 months operation.

"D"—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilowatts	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
9,397.87	510,097	101	421	7.75	1.8	4,383.09	8	151.4	533
5,208.45	168,973	59	239	7.36	3.1	233.07	3	13.1	370
3,698.46	160,376	68	196	4.53	2.3	1,862.73	2	51.3	392
3,678.77	152,220	62	205	4.94	2.4	5,859.62	18	243.2	311
1,108.87	53,270	32	139	2.89	2.1	2,186.66	7	78.1	153
495.89	22,266	16	116	2.58	2.2	615.85	2	19.0	88
4,081.73	257,752	61	352	5.58	1.6	2,082.45	6	65.1	408
3,105.95	187,860	47	333	5.50	1.7	4,153.83	4	113.6	217
7,845.99	384,275	90	356	7.26	2.0	5,317.11	7	164.7	551
1,559.70	55,630	24	193	5.42	2.8				70
9,356.59	559,330	92	507	8.47	1.7	7,998.22	12	297.3	566
1,506.88	98,975	28	295	4.48	1.5	1,175.97	7	38.7	223
4,086.18	162,091	52	260	6.55	2.5	1,729.55	3	56.6	279
1,941.62	92,706	34	227	4.76	2.1				169
5,832.39	387,429	89	484	7.28	1.5	1,254.45	4	34.3	534
5,684.55	242,809	28	723	16.92	2.3	780.79	3	17.6	444
3,402.68	181,153	51	296	5.56	1.9	1,078.63	4	45.2	293
4,883.91	297,234	109	227	3.73	1.6	11,330.77	12	285.1	481
859.60	36,390	15	202	4.76	2.4	1,380.35	3	79.4	139
6,913.24	393,250	100	327	5.76	1.7	3,946.39	6	119.8	473
4,485.96	292,637	79	309	4.73	1.5	3,166.23	10	158.9	339
5,702.76	378,119	83	380	5.73	1.5	3,800.24	11	144.1	519
3,769.31	183,460	50	306	6.28	2.0	604.28	1	30.8	346
1,516.76	45,811	27	141	4.68	3.3	108.73	1	3.3	97
3,328.40	131,740	51	215	5.44	2.5				257
5,887.66	465,487	60	862	10.90	1.3				162
2,776.38	118,964	63	157	3.67	2.3	1,825.47	4	62.9	216
4,047.60	168,774	66	213	5.11	2.4	1,886.06	7	45.0	299
3,583.78	92,035	63	122	4.74	3.9	1,157.53	5	25.7	291
5,807.96	294,758	82	300	5.90	2.0	5,769.78	14	279.8	398
9,976.65	600,556	144	348	5.77	1.6	12,558.75	28	511.6	770
1,688.42	75,732	28	225	5.03	2.2	1,500.37	1	38.3	109
11,667.42	605,982	143	353	6.80	1.9	8,410.57	27	250.1	678
1,303.37	64,325	48	112	2.26	2.0	1,137.77	6	50.9	260
11,862.22	636,164	157	338	6.30	1.9	9,582.48	18	382.9	759
1,645.65	71,214	30	198	4.57	2.3	663.00	3	26.6	175
1,828.89	31,558	19	138	8.02	5.7				95
603.81	25,124	24	209	5.03	2.4	300.82	3	20.3	144
1,508.96	70,062	23	254	5.47	2.2	196.67	1	11.2	113
3,801.00	244,330	44	463	7.20	1.5	5,371.39	9	158.1	322

STATEMENT

**Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service**

Group IV—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
New Hamburg.....	S.O.	1,602	15,377.05	1,403,084	440	266	2.91	1.1
Niagara.....	S.O.	1,727	28,605.80	3,049,263	783	325	3.04	0.9
Nipigon Township.....	T.B.	V.A.	12,817.66	995,765	374	222	2.85	1.3
Norwich.....	S.O.	1,369	13,758.12	1,299,229	462	234	2.48	1.1
Norwood.....	S.O.	873	8,235.25	498,430	270	154	2.54	1.7
Oil Springs.....	S.O.	426	2,752.35	173,649	125	116	1.83	1.6
Omemece.....	S.O.	611	5,179.21	293,959	205	119	2.10	1.8
Orono.....	S.O.	P.V.	7,361.27	369,530	219	140	2.80	2.0
Otterville.....	S.O.	P.V.	4,894.36	416,619	186	187	2.19	1.2
Paisley.....	S.O.	725	7,067.68	390,380	245	133	2.40	1.8
Palmerston.....	S.O.	1,499	16,730.75	1,439,941	457	263	3.05	1.2
Parkhill.....	S.O.	1,003	10,879.95	799,510	343	194	2.64	1.4
Plattsville.....	S.O.	P.V.	4,417.63	322,572	129	208	2.85	1.4
Point Edward.....	S.O.	1,670	11,826.53	711,780	431	138	2.29	1.7
Port McNicoll.....	S.O.	*890	5,882.41	293,316	308	79	1.59	2.0
Port Perry.....	S.O.	1,435	16,290.60	908,903	460	165	2.95	1.8
Port Rowan.....	S.O.	718	4,336.87	204,950	222	77	1.63	2.1
Port Stanley.....	S.O.	*996	23,649.04	2,249,505	1,006	186	1.96	1.1
Priceville.....	S.O.	P.V.	1,015.59	42,448	52	68	1.63	2.4
Princeton.....	S.O.	P.V.	3,809.50	246,843	101	204	3.14	1.5
Queenston.....	S.O.	P.V.	4,021.62	450,204	96	391	3.49	0.9
Red Rock.....	T.B.	I.D.	9,870.07	745,258	190	327	4.33	1.3
Richmond.....	S.O.	523	4,489.00	425,210	127	279	2.95	1.1
Richmond Hill.....	S.O.	1,751	20,355.54	2,217,322	578	320	2.93	0.9
Ripley.....	S.O.	437	4,860.03	215,804	144	125	2.81	2.3
Rockwood.....	S.O.	P.V.	6,307.53	474,491	199	198	2.64	1.3
Rodney.....	S.O.	859	4,893.52	311,645	295	88	1.38	1.6
Rosseau.....	S.O.	240	2,457.89	65,325	81	67	2.53	3.8
Russell.....	S.O.	P.V.	4,853.09	220,088	136	135	2.97	2.2
St. Clair Beach.....	S.O.	*322	4,853.45	317,306	143	185	2.83	1.5
St. George.....	S.O.	P.V.	4,688.40	351,235	191	153	2.05	1.3
St. Jacobs.....	S.O.	P.V.	6,001.80	563,780	166	283	3.01	1.1
Schreiber Township.....	T.B.	V.A.	17,810.41	423,445	395	89	3.76	4.2
Seaforth.....	S.O.	1,971	19,323.55	1,592,390	590	225	2.73	1.2
Shelburne.....	S.O.	1,209	9,591.67	648,820	362	149	2.21	1.4
Smithville.....	S.O.	P.V.	4,842.13	310,110	209	124	1.93	1.6
Southampton.....	S.O.	*1,792	17,145.92	1,254,159	705	148	2.03	1.4
Springfield.....	S.O.	455	3,505.28	182,660	133	114	2.20	1.9
Stayner.....	S.O.	1,120	10,227.86	673,325	353	159	2.41	1.5
Stirling.....	S.O.	1,115	11,069.80	1,084,631	343	263	2.69	1.0

*Does not include summer population.

“D”—Continued

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly kilowatts	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
7,811.92	430,284	114	315	5.71	1.8	10,431.91	15	405.7	569
8,903.44	642,050	110	486	6.75	1.4	2,715.30	14	125.0	907
13,987.19	998,660	99	841	11.77	1.4	1,732.59	5	60.7	478
7,157.58	353,656	102	289	5.85	2.0	2,330.93	9	152.7	573
4,981.34	198,710	78	212	5.32	2.5	3,251.78	4	107.7	352
1,602.83	71,368	39	152	3.42	2.3	5,649.68	33	127.7	197
2,354.85	89,640	37	201	5.30	2.6	4,960.89	9	166.0	251
2,764.27	100,272	53	157	4.34	2.8	146.96	3	5.0	275
2,946.87	143,049	62	192	3.96	2.1	641.97	8	33.3	256
4,294.01	183,800	62	247	5.77	2.3	2,248.28	6	69.1	313
8,260.32	424,617	110	322	6.26	1.9	10,153.41	20	498.1	587
6,390.81	317,520	94	281	5.67	2.0	4,866.24	12	144.7	449
2,563.24	99,512	30	276	7.12	2.6	3,880.52	2	121.0	161
4,271.90	171,780	57	251	6.25	2.5	69,186.72	15	1,970.8	503
1,705.15	58,049	24	203	5.92	2.9	666.22	1	12.8	333
7,942.95	314,566	91	288	7.27	2.5	3,928.53	12	136.4	563
4,419.55	252,757	73	289	5.05	1.7	115.82	2	7.5	297
8,874.83	534,096	126	353	5.87	1.7	15,495.36	13	627.5	1,145
362.33	13,638	15	76	2.01	2.7	261.36	2	7.3	69
1,175.89	50,437	22	191	4.45	2.3	2,721.65	4	78.6	127
2,450.03	174,140	19	764	10.75	1.4	.....	.....	.....	115
6,400.16	338,625	20	1,410	26.66	1.9	673.10	3	18.7	213
1,875.08	71,333	25	238	6.25	2.6	.....	.....	.....	152
6,596.94	417,041	101	344	5.44	1.6	2,957.28	19	166.0	698
2,643.84	74,834	55	113	4.01	3.5	1,572.68	1	39.9	201
2,203.74	109,035	38	239	4.83	2.0	67.29	2	3.0	239
3,705.35	186,945	76	205	4.06	2.0	3,259.81	8	124.5	379
1,274.62	42,399	16	221	6.64	3.0	701.88	1	14.5	98
3,176.09	104,619	38	229	6.97	3.0	222.00	1	5.2	175
2,208.75	113,585	13	728	14.16	2.0	215.25	1	7.5	157
2,907.74	162,014	39	346	6.21	1.8	3,852.98	4	123.4	234
2,694.08	144,638	38	317	5.90	1.9	4,441.35	9	194.9	213
9,450.11	268,890	53	423	14.85	3.5	265.28	4	11.3	452
12,688.90	701,956	125	468	8.46	1.8	17,329.28	19	752.7	734
5,879.73	340,380	97	292	5.05	1.7	4,140.60	13	179.7	472
4,490.19	224,978	63	298	5.94	2.0	13,561.16	10	488.5	282
7,997.44	330,234	111	248	6.00	2.4	11,339.95	14	340.8	830
1,223.33	45,450	33	115	3.09	2.7	1,656.29	4	56.0	170
6,112.52	353,820	106	278	4.81	1.7	4,134.59	20	192.0	479
4,873.69	265,039	86	257	4.72	1.8	2,660.11	15	138.1	444

STATEMENT

Statistics Relating to the Supply of Electrical Energy to Consumers
For Domestic Service, for Commercial Light Service

Group IV—SMALL TOWNS (less than 2,000 population)

Municipality	System	Popula- tion	Domestic service					
			Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			\$ c.	kw-hr.		kw-hr.	\$ c.	cents
Stoney Creek.....	S.O.	1,395	19,349.68	1,389,700	475	244	3.39	1.4
Stouffville.....	S.O.	1,438	13,134.14	1,263,731	491	214	2.23	1.1
Streetsville.....	S.O.	870	10,982.87	907,369	260	291	3.49	1.2
Sunderland.....	S.O.	P.V.	5,135.27	300,533	175	143	2.45	1.7
Sutton.....	S.O.	*1,114	13,240.77	866,440	531	136	2.08	1.5
Tara.....	S.O.	491	4,146.89	273,560	178	128	1.94	1.5
Tavistock.....	S.O.	1,079	11,907.50	1,144,590	330	289	3.01	1.0
Teeswater.....	S.O.	849	6,657.69	423,437	254	139	2.18	1.6
Terrace Bay.....	T.B.	I.D.	19,226.90	1,741,530	227	639	7.05	1.1
Thamesford.....	S.O.	P.V.	6,411.90	577,865	172	280	3.11	1.1
Thamesville.....	S.O.	857	5,061.15	361,586	287	105	1.47	1.4
Thedford.....	S.O.	579	5,143.13	280,130	196	119	2.19	1.8
Thornbury.....	S.O.	943	8,546.03	480,555	315	127	2.26	1.8
Thorndale.....	S.O.	P.V.	3,147.64	190,250	85	187	3.09	1.7
Thornton.....	S.O.	P.V.	1,868.24	73,630	72	85	2.16	2.5
Tottenham.....	S.O.	551	5,651.54	339,206	186	152	2.53	1.7
Trafalgar Township.....	S.O.	V.A.	41,531.32	2,608,940	843	258	4.11	1.6
Tweed.....	S.O.	1,700	12,362.30	699,223	389	150	2.65	1.8
Uxbridge.....	S.O.	1,630	17,297.40	1,178,690	518	190	2.78	1.5
Victoria Harbour.....	S.O.	*933	5,479.34	283,700	327	72	1.40	1.9
Wardsville.....	S.O.	315	3,017.17	155,040	87	149	2.89	1.9
Warkworth.....	S.O.	P.V.	4,045.67	207,820	162	107	2.08	1.9
Waterdown.....	S.O.	1,070	10,869.30	1,098,130	341	268	2.66	1.0
Waterford.....	S.O.	1,546	11,116.00	915,749	510	150	1.82	1.2
Watford.....	S.O.	1,079	12,212.59	894,590	343	217	2.97	1.4
Waubashene.....	S.O.	P.V.	5,764.35	323,190	283	95	1.70	1.8
Wellesley.....	S.O.	P.V.	4,242.78	284,320	160	148	2.21	1.5
Wellington.....	S.O.	*1,036	9,306.33	678,743	388	146	2.00	1.4
West Lorne.....	S.O.	927	6,160.79	464,584	279	139	1.84	1.3
Westport.....	S.O.	687	5,712.43	311,890	177	147	2.69	1.8
Wheatley.....	S.O.	969	6,279.52	485,070	283	143	1.85	1.3
Warton.....	S.O.	1,837	13,079.69	931,410	513	151	2.12	1.4
Williamsburg.....	S.O.	P.V.	2,318.56	233,260	97	200	1.99	1.0
Winchester.....	S.O.	1,094	10,376.40	874,237	348	209	2.48	1.2
Windermere.....	S.O.	*118	2,921.54	88,455	81	91	3.01	3.3
Woodbridge.....	S.O.	1,250	12,487.13	1,230,831	367	279	2.84	1.0
Woodville.....	S.O.	408	3,543.58	195,783	133	123	2.22	1.8
Wyoming.....	S.O.	644	3,938.33	236,370	196	101	1.67	1.7
Zurich.....	S.O.	P.V.	5,716.33	321,542	185	145	2.57	1.8

*Does not include summer population.

"D"—Concluded

in Ontario Urban Municipalities Served by the Commission
and for Power Service during the year 1949

VILLAGES AND CERTAIN SUBURBAN AREAS

Commercial Light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly kilo- watts	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
7,913.33	334,161	79	352	8.35	2.4	3,481.20	10	120.3	564
7,011.47	456,068	99	384	5.90	1.5	5,029.32	10	209.0	600
4,909.86	204,564	58	293	7.03	2.4	15,453.29	12	508.0	330
2,508.75	107,510	39	230	5.36	2.3	2,878.43	2	76.3	216
11,013.08	479,810	114	351	8.05	2.3	2,821.20	10	89.2	655
2,034.58	115,911	44	220	3.85	1.8	1,902.30	8	61.0	230
5,810.18	295,336	101	244	4.79	2.0	9,507.38	9	337.2	440
4,004.38	162,781	65	209	5.13	2.5	3,344.45	8	121.0	327
7,974.67	449,717	14	268	4.75	1.8	8,503.94	1	232.3	242
2,471.35	133,849	45	248	4.58	1.9	2,621.53	5	97.5	222
4,191.02	269,754	92	244	3.80	1.6	4,181.31	11	164.1	390
3,677.64	171,200	63	226	4.86	2.2	2,463.27	3	64.7	262
4,216.76	172,834	70	206	5.09	2.4	3,945.24	14	196.6	399
1,116.21	43,888	21	174	4.43	2.6	2,375.19	3	68.2	109
617.96	26,260	14	156	3.68	2.4	426.81	2	20.1	88
2,530.32	96,513	50	161	4.22	2.6	2,090.40	9	57.6	245
6,203.42	271,010	74	305	6.99	2.3	5,780.64	17	186.7	934
7,578.34	274,576	86	266	7.34	2.8	10,058.70	19	282.3	494
7,309.74	282,500	109	216	5.59	2.6	5,356.62	17	262.8	644
1,261.95	71,310	35	170	3.00	1.8	418.99	1	10.3	363
2,299.89	116,370	23	422	8.33	2.0	42.42	1	2.2	111
2,267.26	102,138	40	213	4.72	2.2	206.98	1	4.2	203
3,457.40	209,167	48	363	6.00	1.7	1,928.99	10	100.7	399
4,674.97	323,880	81	333	4.81	1.4	5,932.32	15	284.4	606
6,580.34	332,883	84	330	6.53	2.0	6,290.76	9	202.1	436
1,556.69	77,060	30	214	4.32	2.0	1,030.78	3	19.0	316
2,923.83	147,140	52	236	4.69	2.0	1,414.61	8	56.9	220
3,888.82	177,699	80	185	4.05	2.2	5,311.47	12	217.5	480
4,897.33	305,763	74	344	5.52	1.6	14,614.77	13	456.3	366
4,996.93	187,970	61	257	6.83	2.7	.....	.....	.....	238
7,051.80	409,230	88	388	6.68	1.7	6,618.96	15	236.9	386
11,264.38	631,194	110	478	8.53	1.8	12,737.15	25	310.2	648
2,344.11	150,530	37	339	5.28	1.6	.....	.....	.....	124
7,400.54	480,155	95	421	6.49	1.5	6,232.83	4	208.4	447
1,380.45	55,490	12	385	9.59	2.4	1,077.59	2	32.4	95
4,428.18	269,729	70	321	5.27	1.6	20,171.56	10	846.9	447
1,328.72	47,639	30	132	3.69	2.8	619.12	2	29.3	165
2,208.02	124,700	48	217	3.83	1.8	3,162.91	4	90.8	248
4,381.05	188,696	51	308	7.16	2.3	.....	.....	.....	236

APPENDIX I

ACTS AND ORDERS-IN-COUNCIL

AT THE 1949 Session of the Legislative Assembly of the Province of Ontario one Act respecting The Hydro-Electric Power Commission of Ontario was passed. The said Act is reproduced here in full. The short title of the Act is as follows:

The Power Commission Amendment Act, 1949, Chapter 73.

ACTS

CHAPTER 73

An Act to amend The Power Commission Act.

Assented to April 1st, 1949.

Session Prorogued April 8th, 1949.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. Subsection 1 of section 6 of *The Power Commission Act* Rev. Stat., c. 62, s. 6, subs. 1, re-enacted. is repealed and the following substituted therefor:

- (1) The Commission may appoint and employ upon such terms of employment as it deems desirable a general manager, chief engineer, secretary and such other officers and employees as it may deem requisite. Officers and employees.

2.—(1) Subsection 1 of section 7 of *The Power Commission Act*, Rev. Stat., c. 62, s. 7, subs. 1, amended. as amended by section 3 of *The Power Commission Amendment Act, 1946*, is further amended by striking out the words "make to the Lieutenant-Governor in Council, for the information of the Assembly" in the second and third lines and inserting in lieu thereof the words "file with the Provincial Secretary", so that the subsection, exclusive of the clauses, shall read as follows:

- (1) The Commission shall, before the 1st day of March Annual report. in each year, file with the Provincial Secretary an annual report, which shall contain, among other things, clear and comprehensive statements disclosing and exhibiting,—

Rev. Stat.,
c. 62, s. 7,
subs. 2,
re-enacted.
Signing
of report.

(2) Subsection 2 of the said section 7 is repealed and the following substituted therefor:

(2) The annual report shall be signed by the chairman or vice-chairman of the Commission.

Tabling
of report.

(3) The Provincial Secretary shall submit the report to the Lieutenant-Governor in Council and shall then lay the report before the Assembly, if it is in session, or if not, at the next ensuing session.

Rev. Stat.,
c. 62, s. 11a,
subs. 2 (1948,
c. 69, s. 3),
amended.

3. Subsection 2 of section 11a of *The Power Commission Act*, as enacted by section 3 of *The Power Commission Amendment Act, 1948*, is amended by inserting after the figures and letter "21b" in the fifth line the word, figures and letters "21c or 21d", so that the subsection shall read as follows:

Use of
moneys.

(2) Any or all of the amounts at the credit of the frequency standardization reserve account may be used in the discretion of the Commission for meeting any expenditure or costs made or incurred under section 21b, 21c or 21d, except expenditure or costs made or incurred in respect to works held by it under section 71.

Rev. Stat.,
c. 62, s. 17,
re-enacted.

4.—(1) Section 17 of *The Power Commission Act* is repealed and the following substituted therefor:

Pension and
Insurance
Fund.

17.—(1) There shall be a fund known as The Pension and Insurance Fund of The Hydro-Electric Power Commission of Ontario, in this section referred to as the "fund", for the payment of benefits by way of pensions or superannuation allowances to, or allowances upon the death or disability of, such employees of the Commission as the Commission may determine in accordance with this section and any regulations made hereunder, and for the purposes of this section "employee" includes any person in the employ of the Commission on or after the 1st day of November, 1947.

Superseding
former
pension
fund and
retirement
fund.

(2) The fund shall supersede,—

(a) the pension fund established by the Commission with the approval of the Lieutenant-Governor in Council on the 29th day of October, 1923, and administered under regulations and amendments thereof approved by the Lieutenant-Governor in Council on the 29th day of October, 1923, the 26th day of March, 1926, the 25th day of June, 1926, the 15th day of December, 1938, the 28th day of December, 1939, and the 16th day of June, 1944; and

(b) the retirement fund established by the Commission with the approval of the Lieutenant-Governor in Council on the 24th day of November, 1942.

Transfer
of funds.

(3) The moneys, securities and other assets in or credited to the pension and retirement funds mentioned in subsection 2 shall be transferred to the fund and it

- shall consist of the said moneys, securities and other assets and such amounts as may be contributed thereto by the Commission and its employees.
- (4) The regulations referred to in clause *a* of subsection 2 shall continue to apply to all pensions granted before the 1st day of November, 1947, from the pension fund mentioned therein, but all such pensions and death benefits in respect thereof shall be paid by the Commission out of the fund. Payment of prior pensions.
 - (5) The contributions of the employees towards the cost of the benefits mentioned in subsection 1 shall be as prescribed by the regulations made under this section and be paid into the fund in accordance therewith. Contributions of employees.
 - (6) The Commission shall contribute towards the cost of the benefits mentioned in subsection 1 the amount of the difference between the amount of the contributions of the employees and the amount of the cost of the benefits as determined by actuarial valuations. Contributions of Commission.
 - (7) The Commission may enter into agreement with one or more insurers licensed under *The Insurance Act*, for,— Insurance. Rev. Stat., c. 256.
 - (a) providing insurance by way of death or disability benefits for such employees of the Commission as the Commission may determine in accordance with this section and any regulations made hereunder; and
 - (b) payment by the Commission of the cost of the benefits mentioned in clause *a*,

and the cost referred to in clause *b* shall be charged by the Commission against the fund.
 - (8) The contribution by the Commission towards the cost of pensions and life insurance provided by any contract heretofore entered into by or on behalf of an employee of the Commission with an insurer licensed under *The Insurance Act* is hereby authorized and declared to be legal and valid as of the date of making any such contribution. Commission's Contributions confirmed.
 - (9) Subject to the approval of the Lieutenant-Governor in Council, the Commission may make regulations,— Regulations.
 - (a) establishing The Pension and Insurance Plan of The Hydro-Electric Power Commission of Ontario, herein called the "plan";
 - (b) prescribing the class or classes of employees who are eligible to be members of the plan, the time at which membership shall commence, and the period of time thereafter within which an employee may elect not to be a member of the plan;
 - (c) providing for the payment out of the fund of the contributions made by any employee to the fund or to either of the superseded funds referred to in

subsection 2 where such employee elects not to be a member of the plan;

- (d) prescribing the period of employment with the Commission alone, or with a previous employer and the Commission, that shall constitute service for the purpose of determining pension benefits;
- (e) prescribing the persons who may receive benefits under the plan;
- (f) prescribing the contributions to the fund by employees and the rate or rates at which interest shall be calculated when payments are made out of the fund of any such contributions and of any contributions to either of the superseded funds referred to in subsection 2;
- (g) prescribing the amount for which any employee or pensioner shall be insured from time to time;
- (h) prescribing the payments to be made from the fund, or by an insurer, upon,
 - (i) termination of employment,
 - (ii) retirement from employment on pension,
 - (iii) disability, or
 - (iv) death,
 and the terms and conditions upon which, and the person or persons to whom, the same shall be made;
- (i) providing for payment out of the fund of the cost of any benefits provided under any agreement referred to in subsection 7 or 8;
- (j) prescribing the intervals of time within which an actuarial valuation of the fund shall be made; and
- (k) respecting any other matter necessary or advisable to carry out effectively the intent and purpose of this section.

Employees
of Sandwich,
Windsor and
Amherstburg
Railway.

- (10) The Commission may extend the provisions of this section to the employees of the Sandwich, Windsor and Amherstburg Railway, herein referred to as the "railway", to whom the provisions pertaining to the pension fund referred to in clause *a* of subsection 2 applied on the 1st day of November, 1947, whereupon the said employees of the railway shall be deemed to be members of the plan, but it shall not do so unless the railway, its successors and assigns, for itself and its said employees, undertakes to pay and pays to the Commission the full actuarial cost of such benefits for the said employees of the railway.
- (11) Until such time as the railway makes payment of the cost as provided by subsection 10, the regulations respecting the pension fund referred to in clause *a* of subsection 2 shall continue in effect with respect to the said employees of the railway provided that the

When former
regulations
applicable.

contributions specified in those regulations do not cease to be paid to the Commission for any cause other than death or retirement on pension.

- (12) The fund shall be maintained and administered by the Commission and the cost to the Commission of maintaining and administering it shall be deemed to be part of the cost of the administration of the Commission and shall be chargeable accordingly. Cost to Commission chargeable to administration.
- (13) The interest of any person in the fund or in any benefit payable therefrom shall not be subject to garnishment, attachment or seizure or any legal process and shall not be assignable. Freedom from attachment.

(2) This section, together with the regulations first made under section 17 as re-enacted by subsection 1, shall be deemed to have come into force on the 1st day of November, 1948, but any employee who contributed to any former plan and who, while in the employ of the Commission, retired or died during the year immediately preceding the 1st day of November, 1948, shall, or his beneficiary or personal representative shall, as the case may be, be entitled to benefit under the new plan in the same manner and to the same extent as if the effective date of the new plan had been the date of retirement or death, whichever first occurred, of any such employee. Effective date.

5. Clauses *c* and *d* of subsection 2 of section 21 of *The Power Commission Act* are repealed and the following substituted therefor: Rev. Stat., c. 62, s. 21, subs. 2, cls. c, d, re-enacted.

- (c) generate and produce electrical, pneumatic, hydraulic, mechanical or other power or energy at places in Ontario by the use of water, coal, steam or oil, or by any other means, and transform, transmit, make available for use, distribute, deliver, sell, supply and generally use for the purposes of the Commission the electrical, pneumatic, hydraulic, mechanical or other power or energy and connect the works constructed or installed for these purposes with any other power works and with any system; To acquire and construct works for production and use of electricity.
- (cc) for the purposes of clause *c* acquire by purchase, lease or otherwise, hold, improve and use real and personal property, acquire by purchase or otherwise water, coal, steam, oil and other supplies, and construct, maintain and operate works, including without limiting the generality of the foregoing, development works, generating plants, transformer stations, transmission lines, switching and regulating works, distribution lines, access and other roads, and all other equipment, plant and works and things required for or incidental to any of such purposes; To acquire and use real and personal property for the generation and use of electrical power.
- (d) acquire by purchase, lease or otherwise, lands, works, waters, water privileges and water powers upon or adjacent to the boundary line between Ontario and any other province and situate in Ontario, or in such other province, or partly in one and partly in the Works on provincial boundaries.

other of them, and erect, construct, maintain and operate upon any lands so acquired, works for the generation, transformation and transmission of electrical, pneumatic, hydraulic, mechanical or other power or energy, and enter into agreements with the Crown in right of such other province or with any commission appointed by the Lieutenant-Governor in Council of such other province or otherwise lawfully appointed or any other person interested in or affected by such works as to the terms and conditions upon which such works shall be constructed and operated and any rights so acquired be exercised.

Rev. Stat.,
c. 62, s. 21*b*,
cls. *b*, *d*, *e*
(1948, c. 69,
s. 3), re-
enacted.

6.—(1) Clauses *b*, *d* and *e* of section 21*b* of *The Power Commission Act*, as enacted by section 3 of *The Power Commission Amendment Act*, 1948, are repealed and the following substituted therefor:

- (*b*) for the purposes of standardizing and making uniform the periodicity in alternations of current at which electrical power or energy generated or procured by it is utilized and with the consent of the owner, alter, reconstruct, rebuild, re-assemble, construct, extend, replace or do whatever else may be necessary in respect of the electrical equipment, apparatus, appliances, devices and works of any person by which such electrical power is taken and used, except meters of any municipal corporation or commission or the electrical equipment, apparatus, appliances, devices or works of any municipal corporation or commission used for distribution stations or distribution or street lighting systems;

.

- (*d*) bear the expense of anything done pursuant to clause *b* to the electrical equipment, apparatus, appliances, devices or works of commercial lighting consumers, or domestic or rural consumers other than rural power consumers;
- (*e*) charge to and collect from the owners of electrical equipment, apparatus, appliances, devices or works other than the electrical equipment, apparatus, appliances, devices or works mentioned in clause *d* the expense of anything done thereto pursuant to clause *b* to the extent approved by the Lieutenant-Governor in Council and bear the balance of such expense.

(2) Notwithstanding subsection 1, the Order in Council made the 4th day of November, 1948, pursuant to sections 21*a* and 21*b*, shall remain in force until revoked by the Lieutenant-Governor in Council.

Order in
Council of
Nov. 4th,
1948, to
remain
in force.

7. *The Power Commission Act* is amended by adding thereto the following sections:

Rev. Stat.,
c. 62,
amended.

- 21c. The Commission may do whatever will in its opinion effect a reduction in the cost of anything done or to be done under clause *a* or *b* of section 21*b*. Reduction of cost of frequency change-over.
- 21d. Where the owner of any electrical equipment, apparatus, appliances, devices or works by which is utilized electrical power or energy generated or procured by the Commission changes them with the approval of the Commission in order to take the electrical power or energy at a changed periodicity in alternations in current, the Commission may bear the expense of the change to the same extent as if it had effected the change itself under clause *b* of section 21*b*. Change made by owner.
- 21e. Electrical equipment, apparatus, appliances, devices or works, or any part thereof, replaced by the Commission under clause *b* of section 21*b* shall become the property of the Commission. Ownership of replaced equipment.
- 21f. Nothing done under section 21*a* shall be deemed a breach of contract by the Commission or entitle any person to rescind any agreement or release any guarantor from the performance of his obligation. Conversion not a breach of contract.
- 21g.—(1) No action shall be brought against any person in respect of anything done under or pursuant to or to give effect to section 21*a*, 21*b* or 21*c* after the expiration of one year commencing on the date when the cause of action arose. Limitation of actions arising from frequency change-over.
- (2) No action shall be brought against any person in respect of anything done under or pursuant to or to give effect to section 21*a*, 21*b* or 21*c* unless notice in writing of the claim has been served upon or sent by registered post to such person within ninety days after the cause of action arose. Notice of claim.
- (3) No action shall be brought against any person, and no person shall be liable for loss of use of anything, or loss of production of or by anything, or loss of profits by reason of anything done pursuant to, or to give effect to, section 21*a*, 21*b* or 21*c*. No right of action in certain cases.
- (4) Subsections 1 and 2 shall not apply to any action between the Commission and any person in respect of or arising from any agreement between the Commission and such person for the doing by such person for the Commission of anything to give effect to section 21*a*, 21*b* or 21*c*. Saving.

8.—(1) Subsection 1 of section 39 of *The Power Commission Act*, as amended by section 4 of *The Power Commission Amendment Act, 1943*, is repealed and the following substituted therefor: Rev. Stat., c. 62, s. 39, subs. 1, re-enacted.

- (1) Subject to the approval of the Lieutenant-Governor in Council, the Commission may borrow from time to time such sums of money as the Commission may deem requisite for any of the purposes of the Com- General borrowing powers.

mission and may issue notes, bonds, debentures or other securities and the Commission shall have power and shall be deemed always to have had power to make such securities bear such rate or rates of interest and make such securities payable as to principal and interest at such time or times and in such manner and at such place or places in Canada or elsewhere and in the currency or currencies of such country or countries as the Commission with the approval of the Lieutenant-Governor in Council may determine.

(2) Subsection 2 of the said section 39 is amended by striking out the word "made" in the second line of clause *b* and inserting in lieu thereof the word "raised", and by adding thereto the following clauses:

- (d) payment of the whole or any part of any other liability or indebtedness of the Commission;
- (e) carrying out any of the powers and purposes of the Commission referred to in sections 21, 21*a*, 21*b*, 21*c*, 21*d*, 28 and 71, or in respect of the acquisition or construction of works referred to in section 47, providing in whole or in part for expenditures of the Commission made or to be made in connection therewith, reimbursing the Commission for any such expenditures heretofore or hereafter made, and repaying in whole or in part any temporary borrowings of the Commission for any of such purposes.

(3) The said section 39 is further amended by adding thereto the following subsections:

- (7) The notes, bonds, debentures and other securities of the Commission shall be in such form or forms and shall be executed in such manner as the Commission may determine.
- (8) The Commission may provide that the seal of the Commission may be engraved, lithographed, printed or otherwise mechanically reproduced on any security to which it is to be affixed and that any signature upon any such security and upon the coupons, if any, attached thereto may be engraved, lithographed or printed or otherwise mechanically reproduced thereon.
- (9) The seal of the Commission when so mechanically reproduced shall have the same force and effect as if manually affixed and such mechanically reproduced signatures shall for all purposes be valid and binding upon the Commission notwithstanding that any person whose signature is so reproduced has ceased to hold office before the date of the security or before the issue thereof.

9. Section 42 of *The Power Commission Act* is repealed and the following substituted therefor:

42.—(1) Subject to the approval of the Lieutenant-Governor in Council, the Commission may from

Rev. Stat.,
c. 62, s. 39,
subs. 2,
amended.

Rev. Stat.,
c. 62, s. 39,
amended.
Form and
execution
of securities.

Reproduc-
tion of seal
and
signatures.

Effect of
mechanical
reproduction
of seal and
signatures.

Rev. Stat.,
c. 62, s. 42,
re-enacted.

Temporary
loans.

TOWNSHIPS—Continued

East Oxford.....	Mar. 4, 1949	North Plantagenet.....	Sept. 29, 1949
Faraday.....	April 4, 1949	Oneida.....	June 8, 1949
Howard.....	July 22, 1949	Osgoode.....	Sept. 29, 1949
Innisfil.....	July 22, 1949	Osprey.....	Jan. 13, 1950
Laxton, Digby & Longford.....	May 18, 1949	Radcliffe.....	June 24, 1949
Mayo.....	July 22, 1949	Raglan.....	Aug. 2, 1949
McNab.....	Aug. 4, 1949	Reach.....	Sept. 29, 1949
Mulmur.....	Sept. 29, 1949	Rolph, Wylie, Buchanan & McKay.....	Oct. 11, 1949
Mulmur.....	Nov. 10, 1949	Sandwich East.....	Dec. 1, 1949
Nelson.....	Aug. 31, 1949	Sebastopol.....	Sept. 29, 1949
North Dumfries.....	April 4, 1949	Sherwood, Jones and Burns.....	May 2, 1949
		Turnberry.....	Jan. 24, 1950

CORPORATIONS

A. V. Roe Canada Limited.....	Dec. 16, 1949
Building Products Limited.....	Mar. 4, 1949
Canada Starch Company Limited.....	May 3, 1949
Canada Starch Company Limited.....	Jan. 31, 1950
Canadian Admiral Corporation Limited.....	June 24, 1949
Canadian Industries Limited.....	Aug. 2, 1949
Great Lakes Paper Company, Limited.....	April 29, 1949
His Majesty the King, herein represented by the Minister of National Defence for the Dominion of Canada.....	June 20, 1949
His Majesty the King in right of Canada, herein represented by the Minister of National Defence for the Dominion of Canada.....	Nov. 8, 1949
Howard Smith Paper Mills, Limited.....	Mar. 15, 1949
International Nickel Company of Canada Limited.....	April 25, 1949
Madoc Co-Operative Association.....	April 6, 1949
Maple Leaf Milling Company, Limited.....	Mar. 15, 1949
Maple Leaf Milling Company, Limited.....	Oct. 17, 1949
National Silicates Limited.....	June 2, 1949

NORTHERN ONTARIO PROPERTIES

TOWNS

Bonfield.....	July 22, 1949	Machin.....	May 12, 1949
Latchford.....	Mar. 11, 1949	McCrosson and Tovell.....	May 12, 1949
		McKim.....	June 24, 1949
		Monteagle & Herschel.....	April 4, 1949

TOWNSHIPS

Atwood.....	May 10, 1949	Neelon & Garson.....	Nov. 10, 1949
Blue.....	April 29, 1949	Playfair.....	Jan. 24, 1950
Calvin.....	Nov. 21, 1949	Rutherford and George Island.....	Nov. 21, 1949
Jaffrey and Melick.....	May 18, 1949	Van Horne.....	May 12, 1949
Larder Lake.....	April 4, 1949	Worthington.....	April 29, 1949
Larder Lake.....	April 6, 1949		
Machar.....	April 6, 1949		

IMPROVEMENT DISTRICT

McGarry.....	Sept. 1, 1949
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CORPORATIONS

Aquarius Porcupine Gold Mines Limited.....	Oct. 26, 1949
Bidgood-Kirkland Gold Mines Limited.....	Oct. 26, 1949
Boymar Gold Mines Limited.....	Feb. 22, 1949
Broulan Porcupine Mines Limited.....	Mar. 11, 1949
Canadian Johns-Manville Company, Limited.....	Nov. 22, 1949
Canadian Northern Ontario Railway Company.....	Oct. 31, 1949
Cathroy Larder Mines Limited.....	Sept. 1, 1949
Golden Arrow Mines Limited.....	Dec. 1, 1949
Goldhawk Porcupine Mines Limited.....	Aug. 2, 1949
Harrison-Hibbert Mines Limited.....	April 29, 1949
Hasaga Gold Mines Limited.....	Mar. 15, 1949
Hoyle Mining Company Limited.....	April 25, 1949
Kelore Mines Limited.....	April 6, 1949
Madsen Red Lake Gold Mines Limited.....	Jan. 31, 1950
Mattawa Electric Light and Power Company Limited.....	Dec. 12, 1949
Nakhodas Mining Company Limited.....	May 30, 1949
Pickle Crow Gold Mines Limited.....	April 4, 1949
Pickle Crow Gold Mines Limited.....	Jan. 31, 1950
Silver-Miller Mines Limited.....	May 30, 1949
Siscoe Metals Limited.....	April 4, 1949

APPENDIX II

RATES TO CONSUMERS IN RURAL POWER DISTRICTS—1949

- A.—Uniform Rate Structure applicable to Farm service, Hamlet service, Commercial service and Summer service.
- B.—Industrial Power Service—Rates to Consumers served through Facilities of Rural Operating Areas.

UNIFORM RURAL RATE STRUCTURE

The uniform rural rate structure in use for the sale of energy in 1949 incorporated a three-step energy charge, as follows:

1. A first block or number of kilowatt-hours of energy consumption in the billing period, charged for at 3.5 cents gross per kilowatt-hour.
2. A second block or number of kilowatt-hours of energy consumption in the billing period, charged for at 1.6 cents gross per kilowatt-hour; and
3. All remaining kilowatt-hours of energy consumption in the billing period, charged for at 0.75 cents gross per kilowatt-hour.

In addition, for Hamlet service there is a monthly service charge and for summer service there is an annual fixed charge.

Under these rate schedules, rural service is available in four main classes. All rural contracts for service carry a symbol consisting of a letter indicating the classification of the contract, followed by a number which indicates the demand rating or permissible demand contracted for in kilowatts. These classes and symbols are: Farm service, F; Hamlet service, H; Commercial service, C and Summer service, S.

The following are the rate schedules which were in force in 1949 for the main classes of service with various demand ratings:

RATE SCHEDULES FOR RURAL SERVICE

FARM SERVICE

Minimum demand rating for billing purposes—3 kilowatts

Farm rating	Demand in kw	Service charge	Kw-hrs per month at 3.5 cents per kw-hr	Kw-hrs per month at 1.6 cents per kw-hr	Kw-hrs per month at 0.75 cents per kw-hr	Min. bill per month gross
F3	3	Nil	60	180	Balance	\$ c 2.25
F4	4	"	80	240	"	3.00
F5	5	"	100	300	"	3.75
F6	6	"	120	360	"	4.50
F7	7	"	140	420	"	5.25
F8	8	"	160	480	"	6.00
F9	9	"	180	540	"	6.75
F10	10	"	200	600	"	7.50

NOTE: Farm classes above F3 are computed by adding, for each month, 20 kw-hrs to the number of kw-hrs at the first rate, and 60 kw-hrs to the number of kw-hrs at the second rate, for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

HAMLET SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Hamlet rating	Demand in kw	Monthly service charge	Kw-hrs per month at 3.5 cents per kw-hr	Kw-hrs per month at 1.6 cents per kw-hr	Kw-hrs per month at 0.75 cents per kw-hr	Min. bill per month gross
H2	2	cents 56	40	80	Balance	\$ c 1.67
H3	3	"	40	180	"	2.25
H4	4	"	60	240	"	3.00
H5	5	"	80	300	"	3.75
H6	6	"	100	360	"	4.50
H7	7	"	120	420	"	5.25
H8	8	"	140	480	"	6.00
H9	9	"	160	540	"	6.75
H10	10	"	180	600	"	7.50

NOTE: Hamlet classes above H3 are computed by adding, for each month, 20 kw-hrs to the number of kw-hrs at the first rate and 60 kw-hrs to the number of kw-hrs at the second rate for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

COMMERCIAL SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Com- mercial rating	Demand in kw	Monthly service charge	Kw-hrs per month at 3.5 cents per kw-hr	Kw-hrs per month at 1.6 cents per kw-hr	Kw-hrs per month at 0.75 cents per kw-hr	Min. bill per month gross
C1*	1	Nil	30	60	Balance	\$ c 0.75
C2	2	"	60	120	"	1.50
C3	3	"	90	180	"	2.25
C4	4	"	120	240	"	3.00
C5	5	"	150	300	"	3.75
C6	6	"	180	360	"	4.50
C7	7	"	210	420	"	5.25
C8	8	"	240	480	"	6.00
C9	9	"	270	540	"	6.75
C10	10	"	300	600	"	7.50

NOTE: Commercial classes above C2 are computed by adding, for each month, 30 kw-hrs to the number of kw-hrs at the first rate and 60 kw-hrs to the number of kw-hrs at the second rate, for each increase of 1 kw in demand.

For the minimum gross bill add 75 cents for each increase of 1 kw in demand.

Prompt payment discount 10 per cent.

*Only available in combination with a hamlet service.

SUMMER SERVICE

Minimum demand rating for billing purposes—2 kilowatts

Summer rating	Demand in kw	Annual fixed charge	Kw-hrs per annum at 3.5 cents per kw-hr	Kw-hrs per annum at 1.6 cents per kw-hr	Kw-hrs per annum at 0.75 cents per kw-hr	Minimum bill
S2	2	\$ c 11.11	150	450	Balance	Nil
S3	3	15.56	225	675	"	"
S4	4	15.56	300	900	"	"
S5	5	16.67	375	1,125	"	"
S6	6	20.00	450	1,350	"	"
S7	7	23.33	525	1,575	"	"
S8	8	26.67	600	1,800	"	"
S9	9	30.00	675	2,025	"	"
S10	10	33.33	750	2,250	"	"

NOTE: Summer Service classes above S2 are computed by adding, for each year 75 kw-hrs to the number of kw-hrs at the first rate and 225 kw-hrs to the number of kw-hrs at the second rate for each increase of 1 kw in demand.

The annual fixed charge for all classes above S4 is \$3.33 for each kw in demand.

Prompt payment discount 10 per cent.

DESCRIPTION OF MAIN CLASSES OF HYDRO RURAL SERVICE

The four main classes are described below. When the class of service which will meet the requirements of the individual consumer has been chosen, contracts are executed between the consumer and the corporation of the township concerned.

Farm Service

Farm service is considered to be service to property having lands used for the production of food stuff or industrial crops for sale and from which a substantial livelihood is obtained. It includes electrical service to all farm buildings and equipment situated on the farm and used for farm purposes, including buildings and equipment required for processing the products of the customer's farm.

Service under a single farm contract may be supplied to all dwellings or separate domestic establishments situated on the farm property and occupied by persons who are regularly engaged in the operation of the farm.

Additional dwellings or domestic establishments situated on a farm property and occupied by persons not regularly engaged in the operation of the farm, if served, are classed as hamlet contracts and rated accordingly. Small properties of five acres and less are classed as hamlet services except where special circumstances justify a farm classification.

The minimum demand rating of a farm service for billing purposes is three kilowatts.

Hamlet Service

Hamlet service is considered to be service to a domestic establishment or residence in a rural or in a small suburban community served as part of a rural operating area and includes isolated rural residences.

Commercial Service

Commercial service is considered to be service to community or business premises including schools, churches, public halls, hospitals, hotels, public boarding houses, tourist camps, business and professional offices, stores, repair shops, garages, gasoline stations, blacksmith and woodworking shops, small manufacturing and processing plants, chick hatcheries, sign and display lighting and all other premises used for commercial or community purposes.

Single-phase power only is supplied under a commercial contract. Where three-phase power is required, the service is classed as an "Industrial power service."

Summer Service

Summer service is applicable to properties where service is used normally only during the summer months and which are not established as the con-

sumer's permanent residence. This service is not limited to cottages, but may include summer hotels, tourist camps, refreshment booths and other commercial premises.

The demand rating for Hamlet, Commercial and Summer service is two kilowatts for a two-wire service and is limited by a 20-ampere breaker or a 30-ampere fuse. If the demand exceeds two kilowatts, three-wire service is supplied and the minimum demand rating is three kilowatts.

STANDARD NUMBER OF CONSUMERS PER MILE

The number of consumers required per mile of line extension varies according to classification and rating of all applicants. For this purpose a unit rating is allocated to each consumer, according to the classification and rating.

The following table shows the number of units and contracts per mile for each class of service:—

Classification of consumer	Rating in kilowatts	Units per contract	Contracts per mile
Single Services			
Farm.....	3 and over	5	2
Hamlet.....	2	3	3.33
Hamlet.....	3	3	3.33
Hamlet.....	4	3	3.33
Hamlet.....	5 and over	4	2.5
Commercial.....	2	3	3.33
Commercial.....	3	3	3.33
Commercial.....	4	3	3.33
Commercial.....	5 and over	4	2.5
Summer.....	2	2	5
Summer.....	3	2	5
Summer.....	4	2	5
Summer.....	5 and over	3	3.33
Multiple Services			
Farm.....	3 and over	5	2
Hamlet.....	4	3	3.33
Hamlet.....	5 and over	4	2.5
Commercial.....	4	3	3.33
Commercial.....	5 and over	4	2.5
Summer.....	4	2	5
Summer.....	5 and over	3	3.33
Combination Services			
Total kilowatts of:			
Combined Farm with Hamlet or Commercial.....	4 and over	5	2
Combined Hamlet with Commercial.....	up to 4	3	3.33
Combined Hamlet with Commercial.....	5 and over	4	2.5

Industrial Power Service

Power service covers three-phase service to power users, such as creameries, cheese factories, chopping mills, industries and special loads, which cannot be supplied as Commercial single-phase service.

INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one h.p.	Service charge per kw per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All addi- tional per kw-hr	Prompt payment discount
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SOUTHERN ONTARIO SYSTEM

Western Region

		\$ c.	\$ c.	cents	cents	cents	%
Aylmer.....	Aylmer.....	27.00	1.35	2.3	1.5	0.33	10
Blenheim.....	Blenheim.....	28.00	1.35	2.5	1.6	0.33	10
Bothwell.....	Bothwell.....	30.00	1.35	2.8	1.8	0.33	10
Chatham.....	Chatham.....	25.00	1.35	2.0	1.3	0.33	10
Delaware.....	Delaware.....	26.00	1.35	2.2	1.4	0.33	10
Dorchester.....	Dorchester.....	26.00	1.35	2.2	1.4	0.33	10
Essex.....	Essex.....	27.00	1.35	2.3	1.5	0.33	10
Exeter.....	Exeter.....	30.00	1.35	2.8	1.8	0.33	10
Forest.....	Forest.....	31.00	1.35	2.9	1.9	0.33	10
Harrow.....	Harrow.....	28.00	1.35	2.5	1.6	0.33	10
Ingersoll.....	Ingersoll.....	25.00	1.35	2.0	1.3	0.33	10
Kingsville.....	Kingsville.....	28.00	1.35	2.5	1.6	0.33	10
London.....	London.....	25.00	1.35	2.0	1.3	0.33	10
Lucan.....	Lucan.....	30.00	1.35	2.8	1.8	0.33	10
Merlin.....	Merlin.....	28.00	1.35	2.5	1.6	0.33	10
Norwich.....	Norwich.....	26.00	1.35	2.2	1.4	0.33	10
Oil Springs.....	Oil Springs.....	31.00	1.35	2.9	1.9	0.33	10
Ridgetown.....	Ridgetown.....	32.00	1.35	3.1	2.0	0.33	10
St. Thomas.....	St. Thomas.....	27.00	1.35	2.3	1.5	0.33	10
Sarnia.....	Sarnia.....	29.00	1.35	2.6	1.7	0.33	10
Tillsonburg.....	Tillsonburg.....	26.00	1.35	2.2	1.4	0.33	10
Wallaceburg.....	Wallaceburg.....	27.00	1.35	2.3	1.5	0.33	10
West Lorne.....	West Lorne.....	30.00	1.35	2.8	1.8	0.33	10
Windsor.....	Windsor.....	25.00	1.35	2.0	1.3	0.33	10
Woodstock.....	Woodstock.....	25.00	1.35	2.0	1.3	0.33	10

West Central Region

Brantford.....	Brantford.....	26.00	1.35	2.2	1.4	0.33	10
Burlington.....	Burlington.....	25.00	1.35	2.0	1.3	0.33	10
Cayuga.....	Cayuga.....	33.00	1.35	3.2	2.1	0.33	10
Clinton.....	Clinton.....	31.00	1.35	2.9	1.9	0.33	10
Dundas.....	Dundas.....	25.00	1.35	2.0	1.3	0.33	10
Elmira.....	Elmira.....	26.00	1.35	2.2	1.4	0.33	10
Guelph.....	Guelph.....	24.00	1.20	2.1	1.4	0.30	10
Kitchener.....	Kitchener.....	26.00	1.35	2.2	1.4	0.33	10
Listowel.....	Listowel.....	26.00	1.35	2.2	1.4	0.33	10
Mitchell.....	Mitchell.....	28.00	1.35	2.5	1.6	0.33	10
Stoney Creek.....	Saltfleet.....	22.00	1.20	1.7	1.2	0.30	10
	Caledonia Section.	25.00	1.35	2.0	1.3	0.33	10
Simcoe.....	Simcoe.....	28.00	1.35	2.5	1.6	0.33	10
Stratford.....	Stratford.....	26.00	1.35	2.2	1.4	0.33	10

**INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one h.p.	Service charge per kw per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All addi- tional per kw-hr	Prompt payment discount
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SOUTHERN ONTARIO SYSTEM—Continued

Niagara Region

		\$ c.	\$ c.	cents	cents	cents	%
Beamsville.....	Beamsville.....	24.00	1.20	2.1	1.4	0.30	10
Dunnville.....	Dunnville.....	27.00	1.35	2.3	1.5	0.33	10
St. Catharines.....	Niagara.....	23.00	1.20	1.9	1.3	0.30	10
Welland.....	Welland.....	20.00	1.20	1.4	0.9	0.30	10

Toronto Region

Brampton.....	Brampton.....	26.00	1.35	2.2	1.4	0.33	10
Markham.....	Markham.....	26.00	1.35	2.2	1.4	0.33	10
Richmond Hill....	Richmond Hill....	26.00	1.35	2.2	1.4	0.33	10
Sutton.....	Sutton.....	28.00	1.35	2.5	1.6	0.33	10
Woodbridge.....	Woodbridge.....	27.00	1.35	2.3	1.5	0.33	10

Georgian Bay Region

Alliston.....	Alliston.....	30.00	1.35	2.8	1.8	0.33	10
Bala.....	Bala.....	25.00	1.35	2.0	1.3	0.33	10
Barrie.....	Barrie.....	30.00	1.35	2.8	1.8	0.33	10
Bracebridge.....	Bracebridge.....	29.00	1.35	2.6	1.7	0.33	10
Cannington.....	Cannington.....	31.00	1.35	2.9	1.9	0.33	10
Orillia.....	Hawkestone.....	24.00	1.20	2.1	1.4	0.30	10
Huntsville.....	Huntsville.....	28.00	1.35	2.5	1.6	0.33	10
Markdale.....	Markdale.....	26.00	1.35	2.2	1.4	0.33	10
Penetanguishene...	Midland.....	27.00	1.35	2.3	1.5	0.33	10
Orangeville.....	Orangeville.....	36.00	1.35	3.7	2.4	0.33	10
Owen Sound.....	Owen Sound.....	32.00	1.35	3.1	2.0	0.33	10
Parry Sound.....	Parry Sound.....	27.00	1.35	2.3	1.5	0.33	10
Shelburne.....	Shelburne.....	31.00	1.35	2.9	1.9	0.33	10
Stayner.....	Stayner.....	26.00	1.35	2.2	1.4	0.33	10
Uxbridge.....	Uxbridge.....	32.00	1.35	3.1	2.0	0.33	10
Walkerton.....	Walkerton.....	30.00	1.35	2.8	1.8	0.33	10
Wingham.....	Wingham.....	31.00	1.35	2.9	1.9	0.33	10

East Central Region

Bancroft.....	Bancroft.....	40.00	1.35	4.3	2.8	0.33	10
Belleville.....	Belleville.....	24.00	1.20	2.1	1.4	0.30	10
Bowmanville.....	Bowmanville.....	26.00	1.35	2.2	1.4	0.33	10
Cobourg.....	Cobourg.....	25.00	1.35	2.0	1.3	0.33	10
Fenelon Falls.....	Fenelon Falls....	28.00	1.35	2.5	1.6	0.33	10
Frankford.....	Frankford.....	23.00	1.20	1.9	1.3	0.30	10
	Brighton.....	23.00	1.20	1.9	1.3	0.30	10
Kingston.....	Kingston.....	25.00	1.35	2.0	1.3	0.33	10
Lakefield.....	Lakefield.....	25.00	1.35	2.0	1.3	0.33	10
Millbrook.....	Millbrook.....	28.00	1.35	2.5	1.6	0.33	10
Minden.....	Minden.....	28.00	1.35	2.5	1.6	0.33	10

**INDUSTRIAL POWER SERVICE—RATES TO CONSUMERS
SERVED THROUGH FACILITIES OF RURAL OPERATING AREAS**

Control office location	Rural operating areas	Basis of rate, yearly charge 130 hrs monthly use of one h.p.	Service charge per kw per month	First 50 hrs per month per kw-hr	Second 50 hrs per month per kw-hr	All addi- tional per kw-hr	Prompt payment discount
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SOUTHERN ONTARIO SYSTEM—Concluded

East Central Region—Continued

		\$ c.	\$ c.	cents	cents	cents	%
Napanee.....	Napanee.....	24.00	1.20	2.1	1.4	0.30	10
Norwood.....	Norwood.....	31.00	1.35	2.9	1.9	0.33	10
Oshawa.....	Oshawa.....	25.00	1.35	2.0	1.3	0.33	10
Peterborough.....	Peterborough.....	20.00	1.20	1.4	0.9	0.30	10
Picton.....	Picton.....	29.00	1.35	2.6	1.7	0.33	10
Tweed.....	Tweed.....	34.00	1.35	3.4	2.2	0.33	10

Eastern Region

Arnprior.....	Arnprior.....	25.00	1.35	2.0	1.3	0.33	10
Brockville.....	Brockville.....	25.00	1.35	2.0	1.3	0.33	10
Delta.....	Delta.....	26.00	1.35	2.2	1.4	0.33	10
Lancaster.....	Martintown.....	33.00	1.35	3.2	2.1	0.33	10
Ottawa.....	Ottawa.....	22.00	1.20	1.7	1.2	0.30	10
Perth.....	Perth.....	26.00	1.35	2.2	1.4	0.33	10
	Carleton Place...	24.00	1.20	2.1	1.4	0.30	10
Plantagenet.....	Plantagenet.....	33.00	1.35	3.2	2.1	0.33	10
Cobden.....	Renfrew.....	25.00	1.35	2.0	1.3	0.33	10
Winchester.....	Winchester.....	26.00	1.35	2.2	1.4	0.33	10

THUNDER BAY SYSTEM

Northwestern Region

Thunder Bay.....	Thunder Bay....	24.00	1.20	2.1	1.4	0.30	10
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NORTHERN ONTARIO PROPERTIES

Northeastern Region

Cochrane.....	Cochrane.....	40.00	1.35	4.3	2.8	0.33	10
Matheson.....	Connaught.....	34.00	1.35	3.4	2.2	0.33	10
Kagawong.....	Manitoulin.....	35.00	1.35	3.5	2.3	0.33	10
North Bay.....	North Bay.....	34.00	1.35	3.4	2.2	0.33	10
	Crystal Falls.....	40.00	1.35	4.3	2.8	0.33	10
Sudbury.....	Sudbury.....	30.00	1.35	2.8	1.8	0.33	10
New Liskeard.....	Timiskaming.....	33.00	1.35	3.2	2.1	0.33	10

Northwestern Region

Dryden.....	Dryden.....	40.00	1.35	4.3	2.8	0.33	10
Kenora.....	Kenora.....	40.00	1.35	4.3	2.8	0.33	10
Fort Frances.....	Rainy River.....	40.00	1.35	4.3	2.8	0.33	10
Sioux Lookout....	Sioux Lookout...	40.00	1.35	4.3	2.8	0.33	10

APPENDIX III

SUPPLEMENTARY MATERIAL RELATING TO

SECTION VI—ENGINEERING AND CONSTRUCTION

Comprising:

1. A list of other projects, in addition to those described in Section VI, completed or under construction in 1949.
2. Tabulation showing changes in transformer capacity during the year ended October 31, 1949.
3. Transmission line changes and additions made during the year ended October 31, 1949.
4. A list of the changes made in connection with the communication facilities of the Commission in all systems—Telephone, Power Line Carrier, Telemetering Circuits and Radio.

OTHER PROJECTS

In the electrical engineering field the following paragraphs deal briefly with a number of other projects completed or under construction in 1949.

SOUTHERN ONTARIO SYSTEM

SOUTHWESTERN ONTARIO

Allanburg—The two 75,000-kva voltage regulators and 115-kv switching equipment were placed in service on June 9, 1949.

Galt—The construction of the new 16,000-kva transformer station mentioned in the 1948 report is nearing completion. The station will be placed in service in December 1949.

Guelph—Work is progressing on the installation of the autotransformers at Guelph transformer station.

Kitchener—The new 16,000-kva transformer station, referred to in the 1948 annual report as under construction, was completed and placed in service on July 17, 1949.

London—Work has commenced at London transformer station to remove one 25-cycle, 15,000 kva transformer bank and install two 31,500-kva, 60-cycle transformer banks. The first 60-cycle bank is expected to be ready for service in September 1950 and the second bank at a later date.

The following abbreviations are used as required in this Section of the Annual Report :

hp.....horsepower—unit of capacity
kw.....kilowatt (s)—unit of capacity
kwhrs.....kilowatt-hours—unit of energy
kv.....kilovolt (s)
kva.....kilovolt-ampere (s)

London-Nelson—Work on the new 54,000-kva, 60-cycle transformer station referred to in the 1948 annual report is progressing on schedule and the station is expected to go into service in March 1950.

St. Catharines—Major equipment has been ordered and construction commenced to increase the 115-kv transformer capacity from 16,000-kva to 45,000 kva. The additional capacity is scheduled for service in October 1950.

St. Clair—At the transformer station the initial 27,000-kva, 60-cycle, 115/26.4-kv bank of transformers and associated equipment is being installed. It is expected this increased capacity will be in service in September 1950.

Seaforth—A new 115/26.4-kv transformer station is under construction, which will have a capacity of 16,000-kva at 60 cycles and is scheduled for service in August 1950.

Strathroy—A new high voltage transformer station is being erected with a capacity of 15,000 kva, 60 cycles, having a voltage rating of 115/26.4 kv. It is expected to be placed in service in May 1950.

Tillsonburg—Good progress is being made on the new 115-kva, 8,000-kva, 25-cycle station, which is expected to commence service in February 1950.

Windsor—The major equipment is being ordered for the new 115-kv, 54,000-kva, 60-cycle station, which is scheduled for service in April 1951.

TORONTO AND HAMILTON AREAS

Armitage—The construction of the 60-cycle, 115/26.4-kv, 22,400-kva Armitage transformer station near Newmarket is progressing favourably and it is expected that the station will be ready for service at its scheduled date in 1950.

Hamilton Beach—Work has commenced in connection with the installation of two 25,000-kva, 60-cycle transformer banks with a voltage rating of 115/13.2 kv and two 15,000-kva, 60-cycle transformer banks with a voltage rating of 115/44 kv. These banks are scheduled for service in April 1951.

Hamilton-Gage—The fifth 25,000-kva transformer was installed and will be ready for service in November 1949. This will increase the transformer capacity of the station to 125,000 kva.

Hamilton-Stirton—The work of increasing the capacity of the transformer station from 30,000 kva to 60,000 kva was completed on February 28, 1949.

Toronto-Esplanade—The additional transformer capacity of 50,000 kva, referred to in the 1948 report, was placed in service on October 31, 1949.

Toronto-John—The major equipment for the new 60,000-kva, 115/13.2-kv, 25-cycle transformer station in downtown Toronto, to be known as Toronto-John transformer station, has been ordered and construction is expected to commence early in 1950. The station is scheduled for service in January 1951.

Toronto-Wiltshire—Work is continuing on the increased capacity at this transformer station.

High-Voltage, Oil Circuit-Breaker Changes

The 1948 annual report referred to the replacement of high-voltage, oil circuit-breakers at a number of transformer stations.

This work has been completed at the following stations: Toronto-Leaside, Toronto-Fairbank, Essex, Crowland, Burlington, Atlas Steel and Thorold, and is progressing at Toronto-Bridgman, Toronto-Wiltshire, St. Thomas, London, Kent and Stratford.

EASTERN ONTARIO AND GEORGIAN BAY AREAS

Beaverton—The 600-kva distributing station was replaced by a new 1,000-kva, 44-kv station which was placed in service on October 23, 1949.

Brockville—The construction of a 2,000-kva, 44/2.4-kv station for Brockville Public Utilities Commission was commenced.

Brooklin—A new distributing station of 2,000-kva capacity is under construction.

Chalk River—A new distributing station of 300-kva capacity was erected at Chalk River to supply the Village of Chalk River.

Cobden—The new 3,000-kva, 115/11-kv transformer station which was referred to in the 1948 report, was placed in service on August 14, 1949. The station comprises four 1,000-kva transformers rated 115/44 to 11-kv, one being a spare unit.

Cobourg—The transformer capacity of the distributing station is being increased from 2,250 to 4,000 kva.

Cornwall—The transformer capacity of the station was increased by the addition of three 5,000-kva transformers and one 15,000-kva voltage-regulator, which results in a total capacity of 30,000-kva. This installation was referred to in the 1948 report as being under construction.

Elmvale—In order to supply the growing power demand in the adjoining rural area, a new 300-kva, 44/8-kv station was placed in service on February 9, 1949.

Mallorytown—A new distributing station of 1,000-kva capacity is under construction.

Martintown—The transformer capacity of the distributing station is being increased from 600-kva to 2,000-kva.

Ottawa—The installation of the second 15,000-kva transformer bank and associated equipment at Ottawa-Riverdale transformer station, which was reported in the 1948 report as under construction, was completed and placed in service on March 10, 1949.

Owen Sound—Construction was continued on a 3,000-kva, 44/4-kv substation for Owen Sound Public Utilities Commission.

Parry Sound—The new distributing station of 2,000-kva capacity is expected to be ready for service early in 1950.

Preneveau—The new 2,000-kva distributing station referred to in the 1948 report was placed in service on January 9, 1949.

Six new distributing stations referred to in the 1948 report as being under construction were placed in service during the year. These are at Emsdale, with a capacity of 1,000 kva; Nottawaga, with a capacity of 1,000 kva; Paisley No. 2, with a capacity of 1,000 kva; Walkerton No. 2, with a capacity of 1,000 kva; Hanover No. 2, with a capacity of 1,000 kva. and Wingham No. 2, with a capacity of 2,000 kva.

Plans are under way for the construction of line and station facilities to supply power to Barry's Bay and district. It is expected that the equipment for this service will be ready early in 1950.

THUNDER BAY SYSTEM

Fort William—The work of installing additional 115-kv line switching equipment at the transformer station has commenced. This is required to connect with the new transmission line from Pine Portage generating station.

Kakabeka Falls—Near Kakabeka Falls a new 1,000-kva, 22/12-kv station was erected and placed in service August 15, 1949 to supply power to the Thunder Bay rural operating area.

Rosslyn—The transformer capacity of the distributing station was increased from 1,000-kva to 2,000 kva on July 1949 to supply increase power demand from the Thunder Bay rural operating area.

NORTHERN ONTARIO PROPERTIES

Azilda—The capacity of the transformer station was increased from 1,000 kva to 4,500 kva in October 1949.

Copper Cliff—The installation of the 115-kv switching equipment at the International Nickel Company's station continues and it is expected that the facilities will be in service early in 1950.

Earlton—The new distributing station of 1,000-kva capacity, referred to in the 1948 report, was placed in service in October 1949.

Gowganda—In order to serve the Gowganda mining area a 3,000-kva, 115/12-kv transformer station was constructed and placed in service in February 1949.

Hollinger Pumps—The new 1,000-kva distributing station was placed in service during the year and work continued on the autotransformer stations for Coniaurum, McIntyre and Dome mines.

Manitoulin—A temporary 600-kva, 44/12-kv distributing station was erected and placed in service on October 5, 1949. The station will transmit power obtained from the International Nickel Company to supply the Manitoulin rural operating area. A permanent station to replace the temporary station is scheduled for service some time in 1950.

Matheson—The 1,000-kva distributing station, mentioned in the 1948 report, was placed in service in March 1949.

Moose Lake—A new 30,000-kva, 115/44-kv transformer station is under construction adjacent to the Moose Lake condenser station acquired in 1949 from Ontario-Minnesota Pulp and Paper Company. The new transformer station will supply additional power to the Steep Rock Iron Mines Limited and is scheduled for service in July 1950.

Sioux Lookout—A new distributing station of 100-kva capacity was erected and placed in service on August 11, 1949 to supply power to Sioux Lookout rural operating area. The Sioux Lookout distributing station No. 1 was increased from 450 kva to 1,000-kva capacity.

South Porcupine—Work continued on the new distributing station.

Timagami—A new distributing station with a capacity of 500 kva was placed in service on August 9, 1949.

Timmins—The additional transformer capacity and switching equipment required at Timmins transformer station to receive power from Lower Sturgeon generating station was completed in September 1949.

Virginiatown—A new distributing station with a capacity of 1,000 kva was placed in service on October 18, 1949.

Warren—The new 1,000-kva distributing station, required to supply power to Crystal Falls rural operating area, is expected to be ready for service in January 1950.

The amalgamation of the stations and lines in the Abitibi and Timiskaming districts is continuing, particularly in the Porcupine and Larder Lake areas.

The rehabilitation of lines and stations acquired from the Northern Ontario Power Company, in the area between Kirkland Lake and Matabitchuan is proceeding.

CHANGES IN TRANSFORMER CAPACITY

DURING YEAR ENDED OCTOBER 31, 1949

Station	Type*	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total kva	No.	kva
SOUTHERN ONTARIO SYSTEM								
Apsley.....	D.S.	May 29, 1949	1	600	3	600	.....	.....
Bartonville.....	D.S.	Feb. 20, 1949	3	667	1	2,000	3	250
Beaverton.....	D.S.	Oct. 23, 1949	1	1,000	3	1,000	6	100
Berkeley.....	D.S.	Nov. 3, 1948	1	100	1	100	.....	.....
Blyth.....	D.S.	Sept. 18, 1949	3	333/600	1	1,000/1,800	.....	.....
Brigden.....	D.S.	Jan. 25, 1949	1	600	3	600	1	150
Brighton No. 2.....	D.S.	Mar. 23, 1949	1	600	3	600	.....	.....
Bronte.....	D.S.	Mar. 20, 1949	1	1,000	3	1,000	6	50
Caledonia.....	D.S.	May 22, 1949	3	333	1	1,000	.....	.....
Campbellcroft.....	D.S.	April 1, 1949	3	333	1	1,000	.....	.....
Cannington.....	D.S.	Nov. 28, 1948	1	1,000	1	1,000	3	150
Carleton Place.....	D.S.	June 5, 1949	3	250/333	1	1,000/750	3	100
Centreville.....	D.S.	June 12, 1949	1	2,000/3,600	3	6,000/10,800	1	600
Chalk River.....	D.S.	Aug. 21, 1949	3	100	1	300	.....	.....
Chatham.....	D.S.	Jan. 16, 1949	3	333	1	1,000	.....	.....
Chesterville.....	D.S.	June 19, 1949	1	1,000	3	1,000	1	300
Cobden.....	T.S.	Aug. 14, 1949	3	1,000	1	3,000	.....	.....
Cornwall.....	T.S.	Feb. 27, 1949	3	5,000	1	15,000	.....	.....
Delaware.....	D.S.	Aug. 28, 1949	3	667/1,200	1	2,000/3,600	3	250
Dover Centre.....	D.S.	Nov. 18, 1948	3	333	1	1,000	.....	.....
Emsdale.....	D.S.	June 3, 1949	3	333	1	1,000	.....	.....
Elmvale.....	D.S.	Feb. 9, 1949	3	100	1	300	.....	.....
Embro.....	D.S.	July 24, 1949	3	333/660	1	1,000/1,200	3	200
Falkenburg.....	D.S.	Aug. 11, 1949	3	333	1	1,000	3	200
Farrans Point.....	D.S.	Nov. 11, 1948	1	100	1	100	1	50
Hamilton Stirton.....	T.S.	Feb. 28, 1949	6	10,000	1	60,000	6	5,000
Hanover No. 2.....	D.S.	April 22, 1949	1	1,000	1	1,000	.....	.....
Highgate.....	D.S.	Nov. 7, 1948	1	600	3	600	.....	.....
Ilderton.....	D.S.	June 12, 1949	3	333	1	1,000	3	150
Iroquois.....	D.S.	Dec. 12, 1948	1	750	3	750	1	300

CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED OCTOBER 31, 1949

TRANSFORMERS YEAR ENDED OCTOBER 31, 1949								
Station	Type*	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total kva	No.	kva
SOUTHERN OOTARIO SYSTEM—Continued								
Kincardine.....	D.S.	July 29, 1949	1	2,000	3	2,000	3	250
Kipling.....	T.S.	Mar. 6, 1949	2	25,000/45,000	3	50,000/90,000		
		Sept. 18, 1949	3	25,000	1	75,000		
Kitchener.....	T.S.	July 17, 1949	2	8,000/14,400	3	16,000/28,800		
Lucan.....	D.S.	Dec. 19, 1948	3	333	1	1,000	3	150
Markdale.....	D.S.	May 26, 1949	1	600	3	600		
Meaford No. 1.....	D.S.	Aug. 21, 1949	3	667	1	2,000	3	250
Meaford No. 2.....	D.S.	Oct. 30, 1949	3	667	1	2,000	3	200
Morrisburg.....	D.S.	July 14, 1949	2	75	1	150		
Mountain Lake.....	D.S.	Aug. 5, 1949	1	37.5	1	37.5		
Nottawaga.....	D.S.	June 30, 1949	1	1,000	3	1,000		
Omemece.....	D.S.	Jan. 23, 1949	3	200	1	600	3	100
Orono.....	D.S.	May 17, 1949	1	1,000	3	1,000		
Oshawa.....	T.S.	May 8, 1949	3	5,000	1	15,000		
Oshawa R.C.C.S.....	D.S.	Mar. 27, 1949	3	200	1	600		
Ottawa-Riverdale....	T.S.	Mar. 10, 1949	3	5,000	1	15,000		
Owen Sound No. 2....	D.S.	June 26, 1949	3	200	1	600	3	100
Paisley No. 2.....	D.S.	Mar. 27, 1949	3	333	1	1,000	3	50
Palmerston.....	T.S.	Oct. 2, 1949	1	8,000/14,400	3	8,000/14,400		8,000
Parry Sound.....	D.S.	Dec. 31, 1948	2	75	1	150		
Petrolia.....	D.S.	Dec. 9, 1948	3	667	1	2,000	3	300
Point Edward.....	D.S.	Oct. 9, 1949	1	2,000/3,600	3	2,000/3,600		
Polymer.....	D.S.	Nov. 1, 1948	2	12,500	3	25,000		
Port Rowan.....	D.S.	Sept. 7, 1949					3	37.5
Pottageville.....	D.S.	May 4, 1949	3	333/600	1	1,000/1,800	3	150
Preneveau.....	D.S.	Jan. 9, 1949	3	667	1	2,000		
Rainham.....	D.S.	Sept. 25, 1949	1	600	3	600	1	300
Ryckman.....	D.S.	April 24, 1949	3	500	1	1,500	3	333
St. Davids.....	D.S.	July 10, 1949	1	300	3	300		
Sarnia.....	T.S.	Aug. 10, 1949	1	25,000	3	25,000	2	8,000/14,000
Scarborough.....	F.C. & T.S.	May 5, 1949	2	25,000	3	50,000		
	F.C. & T.S.	Oct. 15, 1949	2	14,000	3	14,000		
Science Hill.....	D.S.	April 13, 1949	1	1,000	3	1,000		
Seaforth.....	D.S.	Oct. 18, 1949	3	200	1	600	3	75
Smiths Falls No. 1..	D.S.	Nov. 15, 1948	1	2,000	3	2,000		
Strathroy.....	D.S.	Sept. 14, 1949	3	333/600	1	1,000/1,800	3	200
Tara.....	D.S.	Mar. 28, 1949	3	100	1	300	3	50
Thamesville.....	D.S.	Aug. 7, 1949	3	333/600	1	1,000/1,800	3	150
Thorah.....	D.S.	Dec. 19, 1948	3	667	1	2,000	3	200
Thorold South.....	D.S.	Jan. 6, 1949	1	600	3	600		
Thornhill.....	D.S.	Oct. 6, 1949	3	667/1,200	1	2,000/3,600	3	250
Thornton.....	D.S.						1	75
Toronto Esplanade..	T.S.	Oct. 31, 1949	2	25,000/45,000	3	50,000/90,000		
Toronto Township...	D.S.	Sept. 11, 1949	1	2,000/3,600	3	2,000/3,600		250
Trafalgar Township...	D.S.	Nov. 23, 1948	1	1,000	3	1,000		
Trenton.....	D.S.	April 21, 1949	3	333	1	1,000	3	100
Tweed.....	D.S.	Nov. 23, 1948	1	100	1	100		
Utterson.....	D.S.	July 12, 1949	3	333	1	1,000	3	200
Uxbridge.....	D.S.	April 5, 1949	3	333	1	1,000	3	100
Vienna.....	D.S.	Sept. 13, 1949	3	333/600	1	1,000/1,800		
Walkerton.....	D.S.	June 12, 1949	1	1,000	1	1,000		
Walkerton.....	R.S.	June 17, 1949					3	50
							3	75

CHANGES IN TRANSFORMER CAPACITY DURING YEAR ENDED OCTOBER 31, 1949

Station	Type*	Date	Transformers installed				Transformers removed	
			No.	kva	Ph.	Total kva	No.	kva
SOUTHERN ONTARIO SYSTEM—Continued								
Wallaceburg No. 2 . . .	D.S.	Jan. 5, 1949	3	333	1	1,000	...	...
Wallaceburg	R.S.	Jan. 16, 1949	...	...	...	...	3	50
							3	75
West Flamboro	D.S.	July 14, 1949	1	1,000/1,800	3	1,000/1,800	...	...
West Hill	D.S.	Sept. 23, 1949	3	333/600	1	1,000/1,800	3	250
Westminster	T.S.	Nov. 1, 1948	2	25,000	3	50,000	...	...
	T.S.	April 1, 1949	2	25,000	3	50,000	...	...
THUNDER BAY SYSTEM								
Beardmore	D.S.	Nov. 21, 1948	1	100	1	100	...	...
Kakabeka	D.S.	Aug. 15, 1949	3	333	1	1,000	...	...
Nipigon	D.S.	April 27, 1949	3	50	1	150	...	...
Port Arthur	D.S.	May 5, 1949	3	333	1	1,000	3	150
							3	200
							3	333
Rosslyn	D.S.	July 24, 1949	3	667	1	2,000	...	...
Schreiber	D.S.	July 10, 1949	3	200	1	600	...	...
NORTHERN ONTARIO PROPERTIES								
Abitibi District								
Azilda	T.S.	Oct. 2, 1949	3	1,500	1	4,500	1	1,000
Connaught	D.S.	May 18, 1949	3	200	1	600	3	333
Gowganda	T.S.	Feb. 28, 1949	2	1,000	1	...	...	...
		Feb. 28, 1949	1	3,000	1	3,000	...	...
Larder Lake	T.S.	Oct. 2, 1949	...	...	...	...	3	1,500
Larder Lake	D.S.	Oct. 19, 1949	3	150	1	450	...	...
Matheson	D.S.	Mar. 7, 1949	3	333	1	1,000	...	...
Smooth Rock Falls . . .	D.S.	June 5, 1949	3	200	1	600	3	100
Swastika	D.S.	July 22, 1949	3	250	1	750	...	...
Timmins	T.S.	Sept. 29, 1949	3	2,500	1	7,500	...	...
Timiskaming District								
Earlton	D.S.	Oct. 18, 1949	3	333	1	1,000	...	...
Hollinger Pumps	D.S.	May 18, 1949	3	333	1	1,000	3	200
Timagami	D.S.	Aug. 9, 1949	1	500	1	500	...	...
Virginiatown	D.S.	Oct. 18, 1949	3	333	1	1,000	...	...
Sudbury District								
Nairn	D.S.	Dec. 15, 1948	1	75	1	75	...	...
Sudbury	D.S.	May 14, 1949	3	667	1	2,000	3	333
Sudbury F.C. & T.S.		Sept. 11, 1949	2	8,000	3	16,000	...	...
Nipissing District								
North Bay	D.S.	July 13, 1949	3	667	1	2,000	3	333
Manitoulin District								
Little Current	D.S.	Oct. 5, 1949	3	200	1	600	...	...
Patricia District								
Sioux Lookout No. 1 . .	D.S.	July 24, 1949	3	333	1	1,000	3	150
Sioux Lookout No. 2 . .	D.S.	Aug. 11, 1949	1	100	1	100	...	...

TRANSMISSION LINE CHANGES AND ADDITIONS

MADE DURING THE YEAR ENDED OCTOBER 31, 1949

SOUTHERN ONTARIO SYSTEM

HIGH-VOLTAGE LINES

A 230-kv, single-circuit, steel-tower transmission line was built from Cumberland switching station 194.57 miles to Enniskillen junction.

A 230-kv, single-circuit, steel-tower transmission line was built from Enniskillen junction 33.16 miles to Leaside junction.

A 230-kv, double-circuit, steel-tower transmission line was built from Leaside junction 16.36 miles to Richview junction, erecting only one circuit at that time.

A 230-kv, double-circuit, steel-tower transmission line was built from Richview junction 3.96 miles to Kipling transformer station. This is the westerly one of three parallel lines being built.

A 230-kv, single-circuit, steel-tower transmission line was built from Allanburg transformer station 103.59 miles to Westminster transformer station. This line was operated initially at 115,000 volts.

A 115-kv, double circuit, steel-tower transmission line was built from Wiltshire junction 2.41 miles to Bridgman transformer station, replacing two old Toronto and Niagara Power Company lines.

A 115-kv, four-circuit, steel-tower transmission line was built from St. Clair junction 0.36 mile to Wiltshire junction, replacing two old Toronto and Niagara Power Company lines. Two of the circuits were strung.

A 115-kv, double-circuit, steel-tower transmission line was built from Wiltshire junction 0.12 mile to Wiltshire transformer station, replacing two old Toronto and Niagara Power Company lines.

A portion of 115-kv, double-circuit, steel-tower transmission line was rebuilt for a distance of 1.95 miles on a new right-of-way south of Horning Mountain junction.

A 115-kv, single-circuit, steel-tower transmission line was built from Ellwood junction 2.16 miles to Riverdale junction.

A second 115-kv circuit was erected on double-circuit, steel towers from Riverdale junction 1.43 miles to Riverdale transformer station.

A 115-kv circuit was erected on the north side of 230-kv, double circuit, steel towers from Ellwood junction 4.68 miles and on 5 wood poles 0.66 mile to Merivale switching station.

A 115-kv circuit was replaced with heavier conductor from Ottawa junction 3.32 miles to Merivale switching station.

Three sections of 115-kv, single circuit, wood pole transmission line from Merivale switching station east to Cyrville junction and a tap to Ottawa transformer station, totalling 13.73 miles, were removed.

LOW-VOLTAGE LINES

Niagara Division

DUNDAS DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Governor's Road junction 1.37 miles to West Flamboro distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Waterdown distributing station 8.19 miles to Carlisle distributing station.

GUELPH DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from St. Andrews' junction 0.38 mile to Beatty Brothers' station.

STRATFORD DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Hullett junction 9.20 miles to Blyth distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Palmerston transformer station 6.13 miles to Rothsay distributing station.

ST. MARYS DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from St. Marys' transformer station 5.65 miles to Science Hill distributing station.

WOODSTOCK DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Tillsonburg transformer station 15.16 miles to Vienna distributing station.

A 26.4-kv, wood-pole transmission line was built from Tillsonburg transformer station 0.33 mile to Fourth Street junction.

ST. THOMAS DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from St. Thomas East junction 7.43 miles to Belmont distributing station.

COOKSVILLE DISTRICT:—Five sections of 13.2-kv, transmission line, totalling 18.65 miles, were reinsulated and the voltage raised to 26.4-kv.

KENT DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Wallaceburg transformer station 3.03 miles to Wallaceburg municipal station.

A 26.4-kv, single-circuit wood-pole transmission line was built from Wallaceburg transformer station 2.65 miles to Wallaceburg distributing station.

A 26.4-kv, single circuit was erected on the top of trunk telephone line poles from Highgate junction 5.77 miles to Highgate distributing station.

ESSEX DISTRICT:—A portion of a 26.4-kv line was rerouted to clear a drainage ditch from Comet junction 1.13 miles to Comet distributing station.

YORK DISTRICT:—A great number of the sections in this district were transferred to Kipling District in June, 1949, when these sections were rearranged to be fed from Kipling transformer station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Sheaffer junction 0.10 mile to Sheaffer Pen Company.

A 26.4-kv, single-circuit line tap was made from Swansea municipal station 0.04 mile to the Steel Company of Canada.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Salisbury junction 0.98 mile to Christie Brown Company.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Church Street junction 0.11 mile to Mimico municipal station No. 2.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Athol Street junction 0.24 mile to Norseman Street junction.

A 26.4-kv tap was made to a new distributing station known as Highfield.

ST. CLAIR DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Water Street junction 0.46 mile to Point Edward distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Oil City junction 6.90 miles to Brigden distributing station.

A portion of 26.4-kv, wood-pole line was built from Oil City junction 0.51 mile to a new Petrolia distributing station.

A portion of 26.4-kv, wood-pole line was built from Petrolia distributing station 3.21 miles to Forest junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Wellington Street junction 0.41 mile to Sarnia municipal station No. 3.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Sarnia transformer station 1.53 miles to Fibreglas Canada Limited.

A 26.4-kv, single-circuit, wood-pole transmission line was built from St. Clair transformer station 8.16 miles to Perch junction.

A 26.4-kv, single circuit, wood-pole transmission line was built from Andrews junction 0.86 mile to Andrews Wire Works.

A 26.4-kv, wood-pole line was restrung with heavier conductor from Forest junction 2.33 miles to Wyoming junction.

A 26.4-kv, wood-pole line was restrung with heavier conductor from Wyoming junction 3.44 miles to Wanstead junction.

A portion of 26.4-kv, double-circuit, wood-pole line was rerouted a distance of 0.39 mile between St. Clair transformer station and St. Clair junction.

LEASIDE-SCARBOROUGH DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Scarborough frequency-changer and transformer station 1.15 miles to Kennedy Road junction.

A second 26.4-kv, single-circuit, wood-pole transmission line was built from Scarborough frequency-changer and transformer station 1.10 miles to Kennedy Road junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Kennedy Road junction 3.08 miles to East York municipal station No. 8.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Kennedy Road junction 2.53 miles to Mack Street junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Mack Street junction 0.30 mile to Metal Stampings Company.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Scarborough frequency-changer and transformer station 1.94 miles to Birchmount junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Mack Street junction 0.33 mile to Patterson Foundry and Machine Company.

A 26.4-kv, single-circuit, wood-pole transmission line was built 0.43 mile from East York municipal station No. 8 to O'Connor junction.

A 26.4-kv, single-circuit, wood-pole transmission line was restrung with heavier conductor from Wardin Avenue junction 0.71 mile to Birchmount junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Scarborough transformer station 2.05 miles to Bendale junction. This includes part of an old section rebuilt and restrung.

Eleven sections of 13.2-kv line, totalling 15.23 miles, were reinsulated and the voltage raised to 26,400 volts.

FAIRBANK DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Fairbank transformer station 6.34 miles to Albion Park distributing station.

A 26.4-kv tap was made to a North York Township station situated on Queen's drive.

A 26.4-kv tap was also made to a North York township station at the de Havilland Aircraft Company.

KIPLING DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Kipling transformer station 1.86 miles to Fourth Avenue junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Fourth Avenue junction 0.73 mile to Birmingham junction.

Two 26.4-kv, single-circuit and parallel wood-pole transmission lines were built from Kipling transformer station, 0.26 mile each, to Witley Street junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Horner Avenue junction 0.85 mile to New Toronto distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Birmingham junction 0.46 mile to New Toronto distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Allan Street junction 0.28 mile to Barringham Rubber Company at Oakville.

A 26.4-kv, single-circuit, wood-pole transmission line was restrung with heavier conductor from Kipling transformer station 1.28 miles to York transformer station.

A 26.4-kv, single-circuit, wood-pole transmission line was restrung with heavier conductor from Kipling transformer station 0.59 mile to Hollywood distributing station.

A 26.4-kv, single-circuit, wood-pole line was restrung with heavier conductor from Hollywood distributing station 0.98 mile to Horner Avenue junction.

CROWLAND DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was built from Crowland transformer station 6.33 miles to Robbins junction.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Robbins junction 3.52 miles to Sherkston distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Robbins junction 4.50 miles to Stevensville distributing station.

ALLANBURG DISTRICT:—A 12-kv tap was made to Thorold South distributing station.

Georgian Bay Division

BALA DISTRICT:—A 44-kv, single-circuit, wood-pole transmission line from Seguin River junction 0.44 mile to Parry Sound station was purchased from the Parry Sound Public Utilities Commission.

EUGENIA DISTRICT:—A 44-kv, single-circuit, wood-pole transmission line was built from Arthur Street junction 0.24 mile to Wingham distributing station No. 2.

A 44-kv tap connection, 0.02 mile, was built to Walkerton distributing station.

A 44-kv tap connection, 0.01 mile, was built to Markdale distributing station.

A 44-kv, single-circuit, wood-pole transmission line was partly replaced and partly rebuilt from Dunn Street junction 10.43 miles to Paisley distributing station.

MUSKOKA DISTRICT:—A 44-kv, single-circuit, wood-pole transmission line was built from Huntsville distributing station 17.16 miles to Emsdale distributing station.

SEVERN DISTRICT:—A 44-kv, single-circuit, wood-pole transmission line was built from Scott Street junction 7.40 miles to Nottawaga distributing station.

A 22-kv, single-circuit, wood-pole transmission line from Thornton junction 1.85 miles to Thornton distributing station was removed.

A 22-kv tap connection, 0.01 mile, was built to Midland municipal station No. 2.

Four sections of 22-kv transmission line were reinsulated and the voltage raised to 44,000 volts.

WASDELL DISTRICT:—Four sections of 22-kv, wood-pole transmission line, totalling 17.89 miles were reinsulated and the voltage raised to 44,000 volts.

Eastern Ontario Division

CENTRAL DISTRICT:—A 44-kv, single-circuit, wood-pole transmission line was built from Picton distributing station 0.83 mile to Picton municipal station.

A 44-kv, single-circuit, wood-pole transmission line was built from Rifle Range junction 0.47 mile to the Bakelite Company of Canada Limited.

A 44-kv, single-circuit, wood-pole transmission line was built from Deloro distributing station 6.81 miles to Moira Lake junction.

A 44-kv, single-circuit, wood-pole transmission line was built from Curve Inn junction 5.75 miles to Orono distributing station.

A 44-kv, single-circuit, wood-pole transmission line was built from Eels Lake junction 19.66 miles to Bancroft distributing station.

A 44-kv, single-circuit, wood-pole transmission line was built from Perth Road junction 5.13 miles to Kingston Mills distributing station.

Two 44-kv, single-circuit, parallel wood-pole transmission lines, each 0.60 mile, were restrung with heavier conductor from Lehigh junction to the Lehigh Canada Cement Company distributing station.

A 44-kv, single-circuit, wood-pole transmission line from Fenelon Falls generating station 13.64 miles to Lindsay distributing station, operated at 11 kv since December, 1940, was raised to 44-kv operation.

A 44-kv, single-circuit, wood-pole transmission line from Picton rural distributing station 0.43 mile to Picton distributing station was removed.

A 6.6-kv, single-circuit, wood-pole transmission line from Heely Falls generating station 5.85 miles to the Ontario Rock Company was removed.

A 44-kv tap connection of 0.015 mile was built to the Royal Canadian Corps of Signals distributing station near Oshawa.

A 44-kv tap connection of 0.04 mile was built to Apsley distributing station.

RIDEAU DISTRICT:—A 26.4-kv, single-circuit, wood-pole transmission line was rebuilt and restrung from Rideau junction 10.26 miles to Merrickville generating station.

ST. LAWRENCE DISTRICT:—A 44-kv, single circuit, transmission line was rebuilt pole-top-pin, after the skywire had been removed, from Plat junction 7.69 miles to Iroquois distributing station.

THUNDER BAY SYSTEM

A 12-kv circuit from Cameron Falls generating station 1.45 miles to Alexander generating station was removed.

A portion of 44-kv, wood-pole transmission line was relocated to clear the Canadian National Railways siding at Beardmore, a distance of 1.30 miles.

Five 22-kv, wood-pole transmission line sections, totalling 40.34 miles, were purchased from the Kaminstiquia Power Company. These lines deliver to Fort William the hydro-electric power generated at Kakabeka Falls.

NORTHERN ONTARIO PROPERTIES

ABITIBI DISTRICT:—A 132-kv, twin-pole, single-circuit transmission line was built from Gull Lake junction 2.06 miles to Kirkland Lake switching station.

A 132-kv, twin-pole, single-circuit transmission line was built from Larder Lake junction 1.50 miles to Larder Lake transformer station.

A portion of the 132-kv, wood-pole transmission line from Tisdale junction to Pamour transformer station was resited for a distance of 0.93 mile.

A portion of 115-kv, twin-pole transmission line, purchased from the Northern Ontario Power Company, was rehabilitated from Elk Lake transformer station 20.54 miles to Gowganda transformer station and energized at 132-kv.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Ramore junction 7.02 miles to Matheson distributing station.

A 26.4-kv, single-circuit, wood-pole transmission line from Kerr Addison junction 0.63 mile to the Kerr Addison Mine was removed.

The insulation on the 132-kv, single-circuit, wood-pole transmission line from Kirkland Lake switching station 17.96 miles to Larder Lake transformer station was reduced to 44 kv and the lines rearranged to feed 44 kv from Kirkland Lake transformer station.

The 26.4-kv, single-circuit, wood-pole transmission line from Larder Lake transformer station to near Armistice junction was reinsulated for 44 kv a distance of 4.48 miles, and the remainder of the line 0.70 mile to Armistice junction was removed.

The 26.4-kv load to Armistice Gold Mines was rearranged to feed from Kerr Addison transformer station by combining two sections and part of a third section and a tap into Kerr Addison transformer station a total distance of 0.86 mile.

The 26.4-kv load to Chesterville Larder Lake Gold Mining Company was rearranged to feed out of Kerr Addison transformer station by a tap connection.

A 26.4-kv, single-circuit, wood-pole transmission line from Peninsular junction 1.00 mile to the Porcupine Peninsular Gold Mines was removed.

A 26.4-kv, single-circuit, wood-pole transmission line was built from Timmins transformer station 1.82 miles to Hollinger pumps distributing station.

A 13.2-kv, single-circuit, wood-pole transmission line was built from Gowganda transformer station 0.74 mile to the Siscoe Gold Mines.

A 13.2-kv, single-circuit, wood-pole transmission line was built from Gowganda transformer station 0.42 mile to Castle-Trethewey No. 1 station.

A 13.2-kv, single-circuit, wood-pole transmission line was built from Gowganda transformer station 0.50 mile to Castle-Trethewey No. 2 station.

TIMISKAMING DISTRICT:—The insulation was reduced from 115 kv to 44 kv on wood-pole transmission line from Upper Notch generating station 7.67 miles to Lorrain Interprovincial Boundary junction.

A 44-kv, single-circuit, wood-pole transmission line was built from Murdock junction 0.70 mile to intersect and connect to 15.34 miles of rehabilitated line to Larder City junction.

A 44-kv, single-circuit, wood-pole transmission line was built from Larder City junction 0.57 mile to Larder Lake distributing station.

A 44-kv, single-circuit, wood-pole transmission line, 1.21 miles of new construction, was built, and 5.54 miles of rehabilitated and reinsulated line from Larder City junction to Virginia-town distributing station was connected in to complete the section.

A 44-kv, single-circuit, wood-pole transmission line was built from Upper Notch generating station 14.52 miles to Cobalt transformer station.

MANITOULIN DISTRICT:—A 44-kv, single-circuit, wood-pole transmission line was built from Quarry junction 15.85 miles to Little Current distributing station.

SUDBURY DISTRICT:—A 115-kv, double-circuit, steel-tower transmission line was built from Coniston generating station 6.70 miles to Sudbury frequency changer station.

A 22-kv, single-circuit, wood-pole transmission line was built from Sudbury transformer station 4.40 miles to Minnow Lake junction.

A 22-kv, single-circuit, wood-pole transmission line was built from Sudbury transformer station 2.00 miles to Garson junction.

A 22-kv, single-circuit, wood-pole transmission line was built from Sudbury transformer station 8.95 miles to Blezard Valley distributing station.

A 115-kv tap connection was built to Warren distributing station.

A portion of 22-kv, single-circuit, wood-pole transmission line from Neelon junction 2.60 miles to Garson junction was removed.

NIPISSING DISTRICT:—A 22-kv, wood-pole transmission line from Fisher Street junction 2.55 miles to North Bay municipal station was restrung with heavier conductor.

A 22-kv, single-circuit, wood-pole transmission line was built from North Bay municipal station 38.39 miles to La Cave development for construction purposes.

PATRICIA DISTRICT:—A portion of 44-kv, single-circuit, wood-pole transmission line was built from Red Lake switching station 1.17 miles to the Orlac Red Lake Mine.

A 44-kv, single-circuit, wood-pole transmission line was built from Red Lake switching station 1.04 miles to Hasaga junction.

A 44-kv, single-circuit, wood-pole transmission line was purchased from Sunstrum junction 21.39 miles to Dryden Paper Company.

COMMUNICATIONS—ALL SYSTEMS

SOUTHERN ONTARIO SYSTEM

Telephone

In southern Ontario, a 150-pair communication cable was installed between Kipling transformer station and Toronto-Strachan transformer station. A 50-pair cable was installed connecting Ontario Power transformer station, Niagara transformer station, Allanburg transformer station and DeCew Falls generating station. A 25-pair cable was installed between Allanburg junction and Thorold transformer station and a 15-pair cable between Canadian Niagara Power transformer station and Toronto Power transformer station. A 150-pair communication cable was installed between the Toronto head office and the corner of Dundas and McCaul streets, from which point a 100-pair cable was taken to the Maclean-Hunter building, a 25-pair cable to the Frequency Standardization office on Bathurst street, and a 25-pair cable to the Property department on Richmond street.

A 150-pair communication cable was installed between Westminster transformer station, London transformer station and London-Nelson transformer station. A 100-pair cable was installed from London-Nelson transformer station to London municipal station No. 1 and a 75-pair cable from London municipal station No. 1 to the Western regional office. A 75-pair communication and control cable was installed between Ottawa transformer station and the Ottawa Hydro-Electric Commission's Bronson substation, and a 29-pair cable from this station to Ottawa-Riverdale transformer station. A 25-pair communication cable was installed between Barrie transformer station and the Georgian Bay regional office. Work was completed on the replacement of a 25-pair communication and control cable connecting Meyersburg, Hagues Reach and Ranney Falls generating stations.

The construction of 73.6 miles of single-circuit, 13.1 miles of double-circuit and 3.2 miles of five-circuit telephone line was completed. Single-story telephone line carrier channels were established between Chats Falls generating station and Merivale switching station, and between London transformer station and Toronto-Strachan transformer station.

Second-story telephone line carrier terminals were added to provide additional channels between Barrie transformer station and Toronto-Fairbank transformer station, and between Chats Falls generating station and Toronto-Leaside transformer station.

A four-channel telephone line carrier was established between Niagara and Toronto-Wiltshire transformer stations to provide telemetering and load control facilities for the power supervisor.

Private automatic and branch telephone exchanges to improve telephone traffic were installed at the Georgian Bay regional office in Barrie, the Frequency Standardization office in Toronto, Auburn generating station, Merivale switching station and Kipling transformer station. Communication buildings were completed at Chats Falls and at Toronto-Leaside transformer stations. Teletype facilities were established between Toronto, Des Joachims and La Cave, and a leased telephone circuit was established between Toronto head office and the regional office in North Bay.

Power-Line Carrier

Work commenced on the construction of an extensive network of channels using a power-line carrier system, operating over the high-voltage transmission lines of the new 60-cycle network. These channels will be used for voice, telemetering, load control and relay protection.

Telemetering Circuits

Telemetering instruments were installed at DeCew Falls, Queenston, Ontario Power, Toronto Power and Canadian Niagara Power generating stations to transmit totaled loads to Niagara transformer station and thence to the power supervisor's office in Toronto over a four-channel telephone carrier system through Toronto-Wiltshire transformer station.

THUNDER BAY SYSTEM

Telephone

A 29-pair communication cable and a 19-pair communication cable were installed at Aguasabon, while an 86-pair communication cable was installed between Cameron Falls generating station and Alexander generating station.

Power-Line Carrier

A power-line carrier link between Aguasabon generating station and Alexander generating station was put into service to provide relay protection over the transmission line.

NORTHERN ONTARIO PROPERTIES

Telephone

The construction of 91.4 miles of single-circuit, 14.6 miles of double-circuit and 4.8 miles of four-circuit telephone line was completed. Single-story telephone line carrier channels were established between Timmins transformer station and Coniston generating station, and between the latter and the regional office in North Bay. Private branch telephone exchanges to improve telephone traffic were installed at Lower Sturgeon generating station, Sudbury frequency changer and transformer station and the Sudbury area office. The communication building has been completed at Sudbury frequency changer and transformer station to house telephone and power line carrier equipment.

RADIO

Considerable activity during the year centred around the mobile radio service. The Commission's plans include the provision of 79 radio-equipped line maintenance trucks which it is hoped will be in operation early in 1950. The new system calls for a network of control stations to be erected in southern Ontario.

Approval was obtained and work begun of a new permanent site for the Toronto AM radio station at Ellesmere.

An AM radio station was opened at the new Sudbury frequency changer and transformer station for the use of the Construction division in communicating with Toronto and construction projects. A similar station was provided at La Cave generating station.

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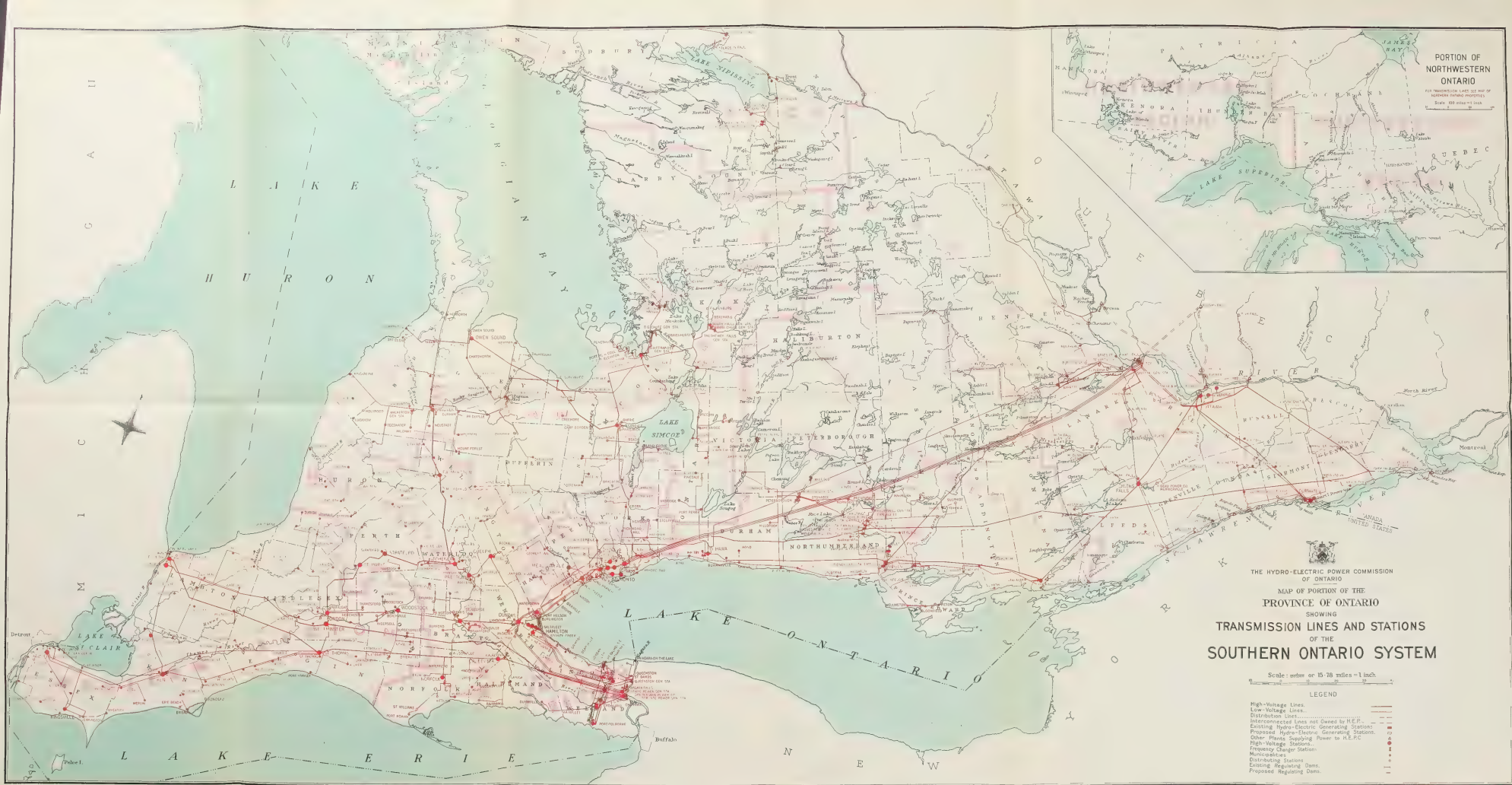
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THE HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

MAP OF PORTION OF THE
PROVINCE OF ONTARIO
SHOWING
TRANSMISSION LINES AND STATIONS
IN DISTRICTS OF THE
NORTHERN ONTARIO PROPERTIES
AND IN THE
THUNDER BAY SYSTEM

Scale: 25 Miles = 1 Inch

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- Low-Voltage Lines
- Existing Hydro-Electric Generating Stations
- Proposed Hydro-Electric Generating Stations
- Other Plants Supplying Power to H.E.C.
- High-Voltage Stations
- Frequency-Changer Stations
- Distributing Stations
- Existing Regulating Dams
- Proposed Regulating Dams
- Interconnected Lines (not owned by H.E.C.)
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